County of San Diego
Health and Human Services Agency
Emergency Medical Services

San Diego County Trauma System Report

July 1, 1999 through June 30, 2000

May 2002

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Acknowledgements

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Preface

In 1982, the Hospital Council of San Diego and Imperial Counties undertook an assessment to determine whether San Diego County would benefit from a regionalized trauma system. The study represented the first comprehensive concurrent and retrospective audit of trauma care in the nation ("Trauma Care Needs Assessment Study" by Amherst and Associates). The findings and recommendations of this report, released in November 1982, led to the development of a joint Hospital Council and Medical Society plan for care of trauma patients in San Diego County.

In October 1983, the Department of Health Services created an ad hoc Trauma Advisory Task Force to assist in the review and evaluation of the Hospital Council - Medical Society Trauma Plan. The advisory group conducted public hearings and informal sessions with hospital and pre-hospital care providers. The task force synthesized the knowledge gained from these providers with the experiences of other trauma systems and their own knowledge and experience into a set of recommendations presented to the Department and the County Board of Supervisors. The recommendations included adopting a trauma standard which closely followed the American College of Surgeons guidelines for optimal care of injured patients.

In August 1984, a regionalized system of trauma care developed by dedicated physicians, nurses, prehospital providers, citizens and system specialists emerged within San Diego County. The system design, undertaken by the Division of Emergency Medical Services (EMS), provided the basic framework for the current system.

Introduction

Currently, there are five adult trauma centers serving San Diego County: Palomar Medical Center, Scripps Memorial Hospital - La Jolla, Scripps Mercy Hospital and Medical Center, Sharp Memorial Hospital, and UCSD Medical Center. Children's Hospital and Health Center serves as the pediatric trauma center. Since August 1984, more than 100,000 trauma patients have been admitted to San Diego County's designated trauma centers.

Traumatic injury, considered a preventable disease, represents a serious public health challenge for San Diego County. During FY 99/00, 8,984 patients were admitted to designated trauma centers (an average of 749 patient admissions per month). The number of trauma patients increased from the previous fiscal year by seven percent.

Trauma Center Admissions by Fiscal Year

Fiscal Year	Trauma Center Admissions			
	Number	Monthly Average	% Change from Previous Year	Rate per 100,000 Population
1985/86	4,374	365	---	203.55
1986/87	5,466	456	25%	245.81
1987/88	6,148	512	12%	267.22
1988/89	6,379	532	4%	267.05
1989/90	6,650	554	4%	268.14
1990/91	7,036	586	6%	277.05
1991/92	7,111	593	1%	275.25
1992/93	6,460	538	-9%	247.11
1993/94	6,399	533	-1%	242.52
1994/95	6,474	540	1%	243.51
1995/96	7,516	626	16%	279.38
1996/97	7,257	605	-3%	266.37
1997/98	7,653	638	5%	273.83
1998/99	8,435	703	10%	295.62
1999/00	8,984	749	7%	308.57

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Center Monthly Reports; Population Estimates, SANDAG.

Traumatic injuries are classified as either penetrating or blunt. The number of patients admitted to county trauma facilities with penetrating injuries (mostly due to firearms and cutting/piercing injuries) increased steadily from fiscal year 1985/86 to 1992/93. Since then, the number of penetrating injuries has decreased 52% to a fifteen-year low in FY 1999/00. The number of blunt injuries, primarily resulting from motor vehicle-related injuries and falls, has continued to increase by an average of 7% each year.

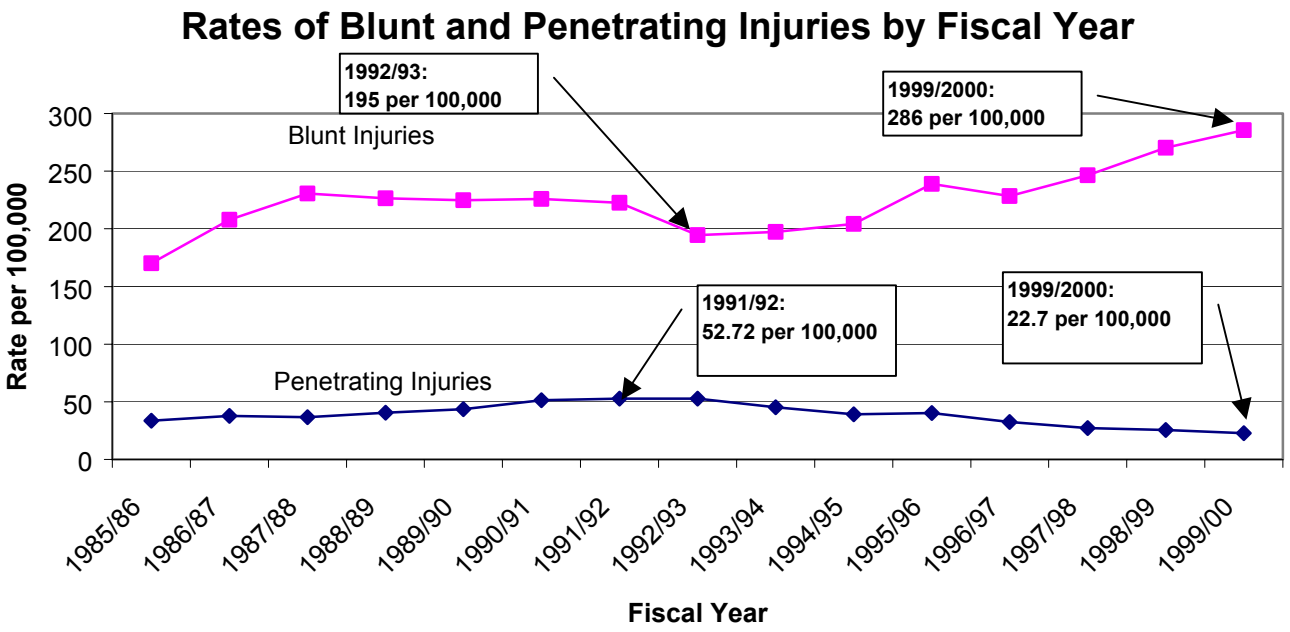
Trauma Center Admissions by Injury Type

Fiscal Year	Penetrating				Blunt			
	#	%	% Change from Previous Year	Rate per 100,000 Population[1]	#	%	% Change from Previous Year	Rate per 100,000 Population
1985/86	721	16%	---	33.55	3,653	84%	---	169.99
1986/87	841	15%	17%	37.82	4,625	85%	27%	207.99
1987/88	845	14%	<1%	36.73	5,303	86%	15%	230.49
1988/89	967	15%	14%	40.48	5,412	85%	2%	226.57
1989/90	1078	16%	11%	43.47	5,572	84%	3%	224.67
1990/91	1301	18%	21%	51.23	5,735	82%	3%	225.82
1991/92	1362	19%	5%	52.72	5,749	81%	<1%	222.53
1992/93	1375	21%	1%	52.60	5,085	79%	-12%	194.51
1993/94	1192	19%	-13%	45.18	5,207	81%	2%	197.35
1994/95	1043	16%	-13%	39.23	5,431	84%	4%	204.28
1995/96	1083	14%	4%	40.26	6,428	86%	18%	238.94
1996/97	883	12%	-18%	32.41	6,226	88%	-3%	228.52
1997/98	759	10%	-14%	27.16	6,890	90%	10%	246.53
1998/99	726	9%	-4%	25.53	7,709	91%	12%	270.18
1999/00	660	7%	-9%	22.7	8,317	93%	8%	285.66

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Center Monthly Reports; Population Estimates, SANDAG.

[1] A rate is calculated as incidence per 100,000 population. Rates were calculated using January 2000 population estimates provided by the San Diego Association of Governments (SANDAG). Rates were not calculated for categories with less than five occurrences.

$$\text{Rate} = \frac{\text{Incidence X } 100{,}000}{\text{Population}}$$



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Center Monthly Reports; Population Estimates, SANDAG.

Trauma Registry Data

The American College of Surgeons Committee on Trauma initiated a study which pooled data from more than 100 trauma centers nationwide. To be included, trauma patients had to meet Major Trauma Outcome Study (MTOS) criteria which reflect either the severity of the patient's injuries or the resources required to care for the patient.

Members of the San Diego County trauma system modified these criteria for the San Diego County Trauma Registry. To be entered into the registry, a trauma patient must meet one of the following: admission to the hospital for at least three days, admission to an intensive or intermediate care unit, interfacility transfer to or from an acute care hospital, **or** death from traumatic injuries. In January 2000, these criteria were revised to include trauma patients who had been admitted for at least 24 hours.

Since 1986, each of the designated trauma centers has submitted data on each trauma patient admission who met the modified MTOS criteria to the Division of EMS. These summaries contained more than 100 variables, including demographic, cause of injury, diagnostic, treatment and patient outcome data.

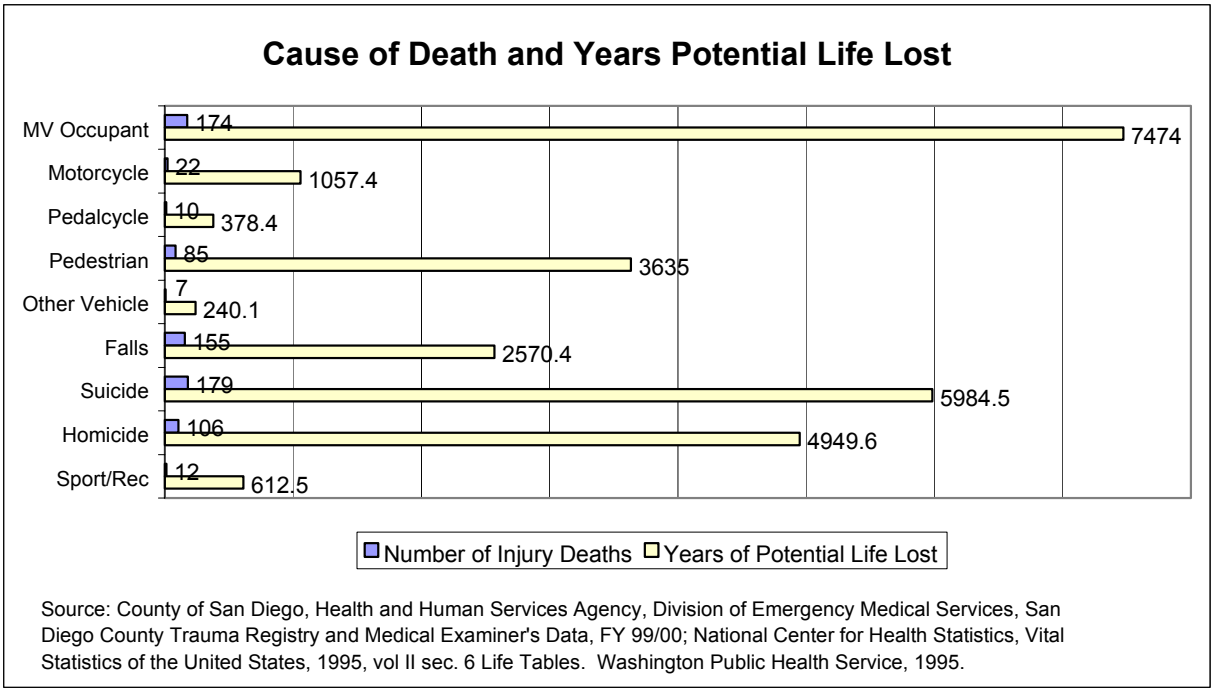
Of the 8,984 patients who were admitted to a trauma center during FY 99/00, 5,093 (57%) met expanded trauma registry criteria for inclusion into the San Diego County Trauma Registry. While total trauma admissions increased by 7% during the last fiscal year, the number of modified MTOS patients increased only two percent in spite of the expanded modified MTOS criteria.

Total MTOS Patient and Trauma Center Admissions

	Total Trauma Admissions	Percentage Change	Modified MTOS Patients	Percentage Change	MTOS Percent of Total
1991/92	7,111	---	4,645	---	65%
1992/93	6,460	-9%	4,492	-3%	70%
1993/94	6,399	-1%	4,235	-6%	66%
1994/95	6,474	1%	4,085	-4%	63%
1995/96	7,516	16%	4,250	4%	57%
1996/97	7,257	-3%	5,007	18%	69%
1997/98	7,653	5%	4,951	-1%	65%
1998/99	8,435	10%	4,995	1%	59%
1999/00	8,984	7%	5,093	2%	57%
Total	**66,289**	**---**	**41,753**	**---**	**63%**

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Trauma Center Monthly Reports.

Among traumatic deaths, motor vehicle occupant crashes were the leading cause of death and years potential life lost (YPLL). In previous years, violence (homicide and suicide) led the YPLL over all types of motor vehicle related injuries combined. Suicide was the leading cause of trauma related mortality, and accounted for the second highest number of YPLL.



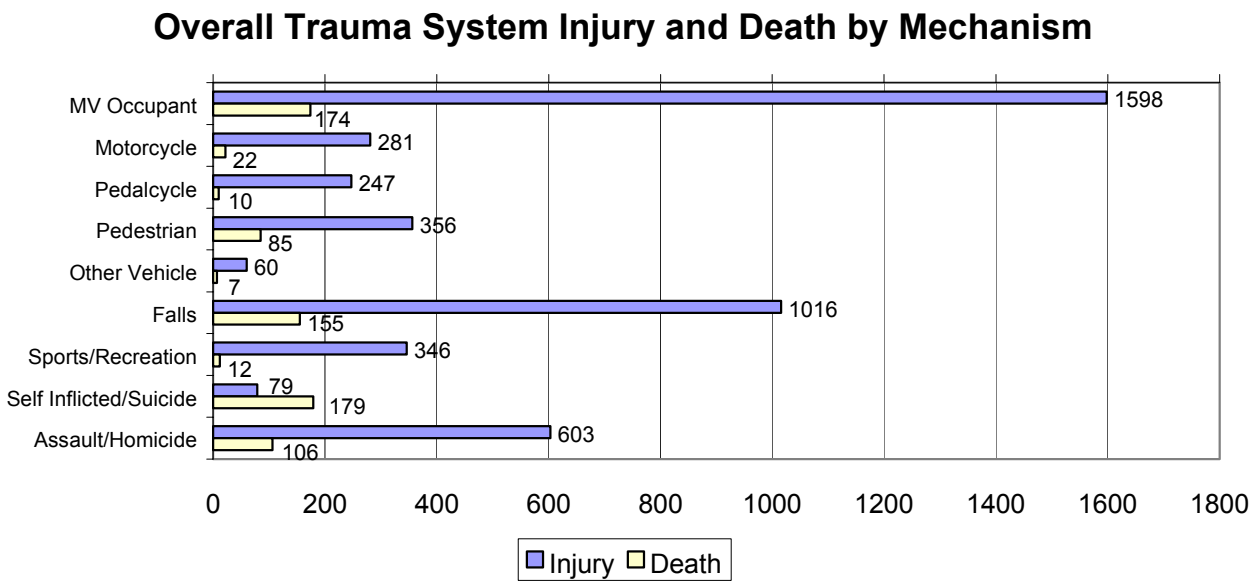
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00; National Center for Health Statistics, Vital Statistics of the United States, 1995, vol II sec. 6 Life Tables. Washington Public Health Service, 1995.

Years Potential Life Lost (YPLL) calculates the years of life lost due to a death using the average life expectancy as an estimate for the total length of life. Life expectancy was derived from the Vital Statistics Life Tables (Centers for Disease Control and Prevention). For age groups, YPLL was calculated using the life expectancy for the median age for the group.

YPLL = (Expected years of life - median age) X Number of deaths

Current Overview of Traumatic Injury in San Diego County

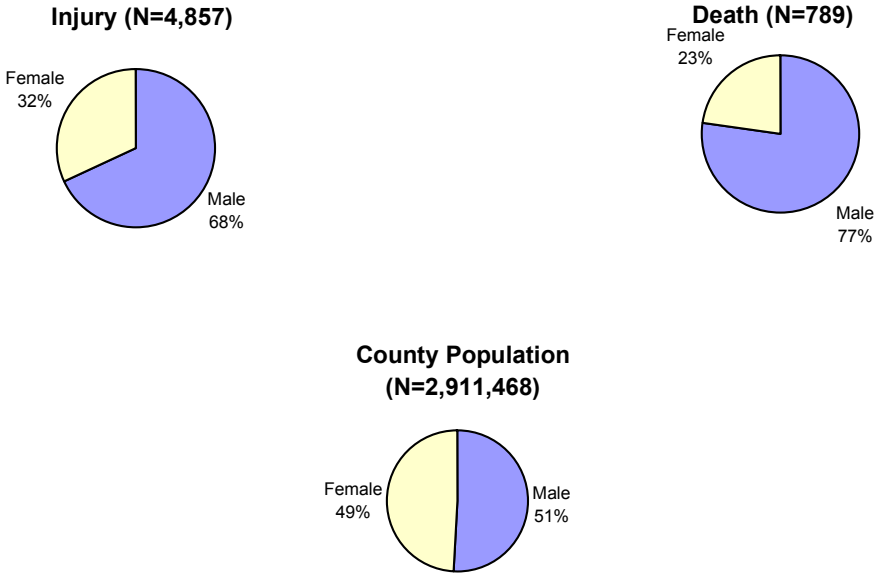
During FY 99/00, 789 lives were lost due to traumatic injury. On the average, for every person who died as the result of a traumatic injury, six more were seriously injured. The figure below breaks out deaths and injuries by mechanism. The three leading causes of traumatic injury were motor vehicle occupant crashes, falls and assaults. The leading causes of traumatic death were suicides, motor vehicle occupant crashes, and falls.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

Although males make up just a little more than half the county's population, they accounted for 68% of all serious injuries and 77% of all trauma patient deaths.

Comparison of County Population to Injuries and Deaths: Gender



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

Patterns of injury were clearly evident by gender. Males accounted for 68% of nonfatal injuries, and were especially highly represented in assaults (86%), motorcycle crashes (90%), and pedalcycle crashes (81%). Motor vehicle occupant crashes and falls were the leading causes of injury for both males and females, while assaults made up 16% of injuries to males compared with only 7% of injuries to females.

Trauma System Injury by Mechanism and Gender

	Male	Female	Total
Vehicle Related	**1,566**	**976**	**2,542**
MV Occupant	*853*	*745*	*1,598*
Motorcycle	*253*	*28*	*281*
Pedalcycle	*199*	*48*	*247*
Pedestrian	*217*	*139*	*356*
Other Vehicle	*44*	*16*	*60*
Falls	**691**	**325**	**1,016**
Sports/Recreation	**239**	**107**	**346**
Overall Violence	**580**	**102**	**682**
Self Inflicted	*59*	*20*	*79*
Assault	*521*	*82*	*603*
Other	**183**	**39**	**222**
Unknown	**40**	**9**	**49**
Total	**3,299**	**1,558**	**4,857**

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

Suicide was the leading cause of traumatic death among males, while female trauma deaths were most often the result of motor vehicle occupant crashes.

Trauma System Deaths by Mechanism and Gender

	Male	Female	Total
Vehicle Related	**232**	**66**	**298**
MV Occupant	*128*	*46*	*174*
Motorcycle	*21*	*1*	*22*
Pedalcycle	*10*	*0*	*10*
Pedestrian	*66*	*19*	*85*
Other Vehicle	*7*	*0*	*7*
Falls	**104**	**51**	**155**
Sports/Recreation	**9**	**3**	**12**
Overall Violence	**231**	**54**	**285**
Suicide	*156*	*23*	*179*
Homicide	*75*	*31*	*106*
Other	**20**	**2**	**22**
Unknown	**14**	**3**	**17**
Total	**610**	**179**	**789**

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

Below is a table which includes both the mean and median ages[2] by mechanism of injury for both injuries and deaths. As this table shows, different mechanisms are likely to have distinct age distributions. Sports and recreation injuries had the youngest age distribution (median=18, mean=23 years), while falls had the oldest patients overall. More than half of all fall deaths were to victims over the age of 75, raising the median age to 77. In general, the mean and median ages were higher among those who expired than those who survived.

Mean and Median Age by Mechanism of Injury and Death

	Survived			Expired		
	Count	Median	Mean	Count	Median	Mean
Vehicle Related	**2,540**	**31**	**35**	**294**	**37**	**39**
MV Occupant	*1,597*	*31*	*37*	*173*	*34*	*39*
Motorcycle	*280*	*31*	*33*	*22*	*25*	*32*
Pedalcycle	*247*	*20*	*26*	*10*	*47*	*43*
Pedestrian	*356*	*31*	*33*	*82*	*39*	*41*
Other Vehicle	*60*	*32*	*36*	*7*	*48*	*47*
Falls	**1,016**	**44**	**45**	**155**	**77**	**71**
Sport/Rec	**346**	**18**	**23**	**12**	**26**	**29**
Overall Violence	**681**	**29**	**31**	**282**	**41**	**44**
Self Inflicted/Suicide	*79*	*36*	*37*	*179*	*45*	*49*
Assault/Homicide	*602*	*28*	*31*	*103*	*32*	*35*
Other	**222**	**28**	**29**	**22**	**32**	**36**
Unknown	**49**	**35**	**39**	**17**	**46**	**49**
Total	**4,854**	**31**	**35**	**782**	**43**	**47**

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.
Note: Age was unknown for 3 injuries and 7 deaths.

[2] The mean is the average age. The median is the middle age when all of the ages are put into numerical order. In the event of an abnormally high or low age (an outlier), the median age is not as likely to be influenced as the mean age.

Traumatic injury primarily affects persons between the ages of 15 and 44 years. These age groups accounted for 54% of severe injuries, and ranged from 31% of falls to 77% of assaults. The age group with the highest incidence of severe injuries was the 25-34 year olds, accounting for 17% of the severe injuries. While motor vehicle occupant injuries were definitely most prominent among the 15-44 year group, patients younger than this had more trouble with pedalcycle and sports/recreation injuries and older patients were more likely to be injured from falls.

Appendix A lists the leading causes of severe injury and death by age group and Appendix C lists county population by age group.

Trauma System Injury by Mechanism and Age Group in Years

	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75+	Unknown	Total
Vehicle Related	**92**	**145**	**118**	**276**	**342**	**474**	**374**	**293**	**168**	**124**	**133**	**3**	**2,542**
MV Occupant	*39*	*52*	*40*	*198*	*254*	*305*	*229*	*178*	*102*	*94*	*105*	*2*	*1,598*
Motorcycle	*1*	*6*	*10*	*31*	*41*	*75*	*53*	*36*	*21*	*5*	*1*	*1*	*281*
Pedalcycle	*9*	*46*	*44*	*23*	*11*	*35*	*30*	*30*	*11*	*3*	*5*	*0*	*247*
Pedestrian	*41*	*41*	*22*	*20*	*30*	*39*	*52*	*45*	*25*	*20*	*21*	*0*	*356*
Other Vehicle	*2*	*0*	*2*	*4*	*6*	*20*	*10*	*4*	*9*	*2*	*1*	*0*	*60*
Falls	**119**	**40**	**43**	**32**	**41**	**104**	**139**	**116**	**78**	**94**	**210**	**0**	**1,016**
Sports/Recreation	**14**	**45**	**81**	**41**	**32**	**53**	**36**	**25**	**12**	**6**	**1**	**0**	**346**
Overall Violence	**22**	**5**	**17**	**106**	**112**	**157**	**146**	**69**	**22**	**13**	**12**	**1**	**682**
Self Inflicted	*0*	*1*	*2*	*5*	*11*	*19*	*19*	*10*	*5*	*4*	*3*	*0*	*79*
Assault	*22*	*4*	*15*	*101*	*101*	*138*	*127*	*59*	*17*	*9*	*9*	*1*	*603*
Other	**28**	**15**	**15**	**20**	**17**	**49**	**31**	**24**	**10**	**8**	**5**	**0**	**222**
Unknown	**4**	**1**	**2**	**3**	**4**	**9**	**9**	**6**	**2**	**4**	**5**	**0**	**49**
Total	**279**	**251**	**276**	**478**	**548**	**846**	**735**	**533**	**292**	**249**	**366**	**4**	**4,857**

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

The age group with the highest incidence of deaths was over the age of 75 (147). Fall deaths accounted for 59% (86/147) of deaths in this group. Thirty-five to forty-four year olds accounted for 20% (59/298) of the vehicle related deaths and 20% (56/285) of the deaths related to violence.

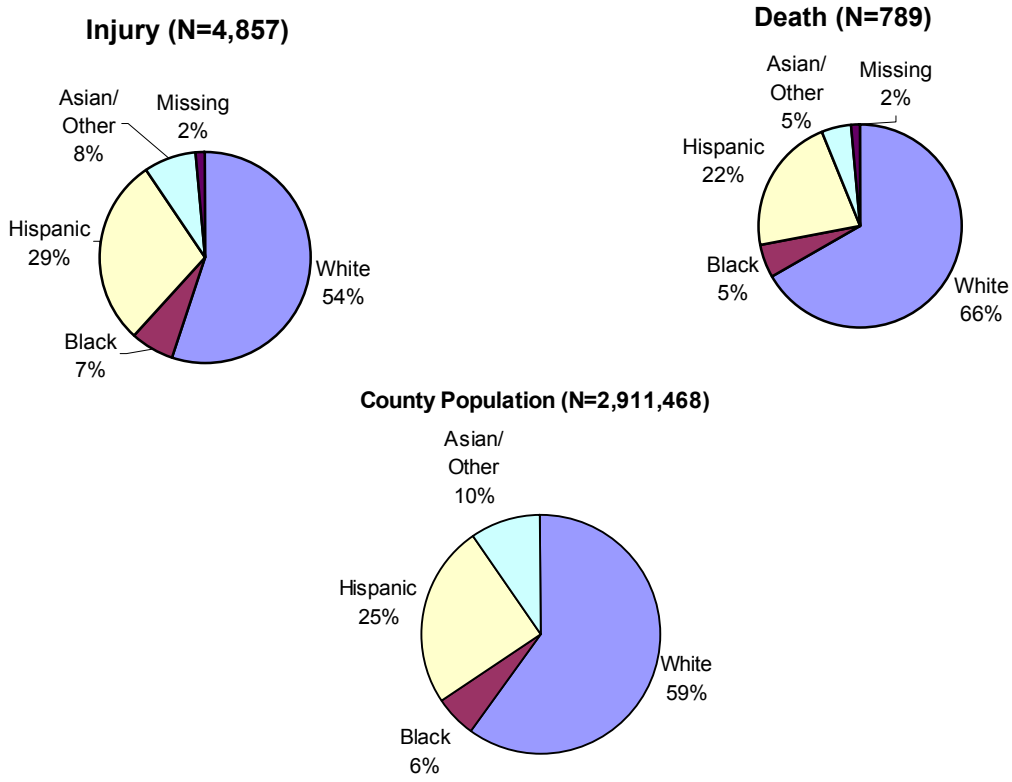
Trauma System Death by Mechanism and Age Group in Years

	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75+	Unknown	Total
Vehicle Related	**6**	**3**	**5**	**42**	**46**	**33**	**59**	**36**	**21**	**19**	**24**	**4**	**298**
MV Occupant	*2*	*1*	*0*	*36*	*28*	*21*	*31*	*15*	*11*	*12*	*16*	*1*	*174*
Motorcycle	*0*	*0*	*0*	*2*	*9*	*2*	*3*	*6*	*0*	*0*	*0*	*0*	*22*
Pedalcycle	*0*	*1*	*0*	*1*	*0*	*0*	*2*	*4*	*1*	*1*	*0*	*0*	*10*
Pedestrian	*4*	*1*	*4*	*3*	*9*	*10*	*22*	*9*	*7*	*5*	*8*	*3*	*85*
Other Vehicle	*0*	*0*	*1*	*0*	*0*	*0*	*1*	*2*	*2*	*1*	*0*	*0*	*7*
Falls	**1**	**1**	**1**	**0**	**0**	**2**	**8**	**20**	**12**	**24**	**86**	**0**	**155**
Sports/Recreation	**2**	**0**	**1**	**1**	**2**	**2**	**2**	**1**	**0**	**1**	**0**	**0**	**12**
Overall Violence	**5**	**2**	**1**	**19**	**31**	**49**	**56**	**35**	**25**	**23**	**36**	**3**	**285**
Self Inflicted	*0*	*1*	*1*	*6*	*15*	*27*	*38*	*26*	*13*	*18*	*34*	*0*	*179*
Assault	*5*	*1*	*0*	*13*	*16*	*22*	*18*	*9*	*12*	*5*	*2*	*3*	*106*
Other	**0**	**0**	**1**	**0**	**3**	**8**	**6**	**2**	**1**	**1**	**0**	**0**	**22**
Unknown	**0**	**0**	**0**	**1**	**0**	**1**	**5**	**4**	**2**	**3**	**1**	**0**	**17**
Total	**14**	**6**	**9**	**63**	**82**	**95**	**136**	**98**	**61**	**71**	**147**	**7**	**789**

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

The following figure shows the race/ethnicity breakdowns for the County of San Diego as well as for injuries and deaths. Compared with the distribution in the population overall, Hispanics made up a higher proportion of traumatic injuries, while Whites and Asian/Others comprised less than would be expected. The proportion of deaths that were White was higher than in the overall population, while Hispanics and Asian/Others were lower.

Comparison of County Population to Injuries and Deaths: Race/Ethnicity



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

During FY 99/00, 57% (3192/5646) of all traumatic deaths and severe injuries took place among the White population. Another 28% of trauma patients were identified as Hispanic (1572/5646). Whites accounted for 53% of nonfatal vehicle related severe injuries and Hispanics accounted for 42% of the nonfatal assault injuries.

Trauma System Injury by Mechanism and Race/Ethnicity

	White	Black	Hispanic	Asian/Other	Missing	Total
Vehicle Related	**1,351**	**160**	**741**	**239**	**51**	**2,542**
MV Occupant	*804*	*82*	*505*	*174*	*33*	*1,598*
Motorcycle	*220*	*13*	*37*	*7*	*4*	*281*
Pedalcycle	*144*	*14*	*60*	*23*	*6*	*247*
Pedestrian	*150*	*47*	*123*	*31*	*5*	*356*
Other Vehicle	*33*	*4*	*16*	*4*	*3*	*60*
Falls	**662**	**42**	**242**	**58**	**12**	**1,016**
Sports/Recreation	**242**	**14**	**63**	**24**	**3**	**346**
Overall Violence	**267**	**85**	**277**	**48**	**5**	**682**
Self Inflicted	*49*	*3*	*23*	*1*	*3*	*79*
Assault	*218*	*82*	*254*	*47*	*2*	*603*
Other	**120**	**16**	**62**	**22**	**2**	**222**
Unknown	**25**	**8**	**15**	**1**	**0**	**49**
Total	**2,667**	**325**	**1,400**	**392**	**73**	**4,857**

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

Homicides accounted for a greater percentage of deaths in the Hispanic and Black populations, when compared to the overall incidence of death by race. Fifty-two percent (52%) of traumatic deaths to Hispanics were due to vehicle related crashes. Forty percent (40%) of traumatic deaths to Blacks were due to homicide, and 28% of traumatic deaths to Whites were due to suicide.

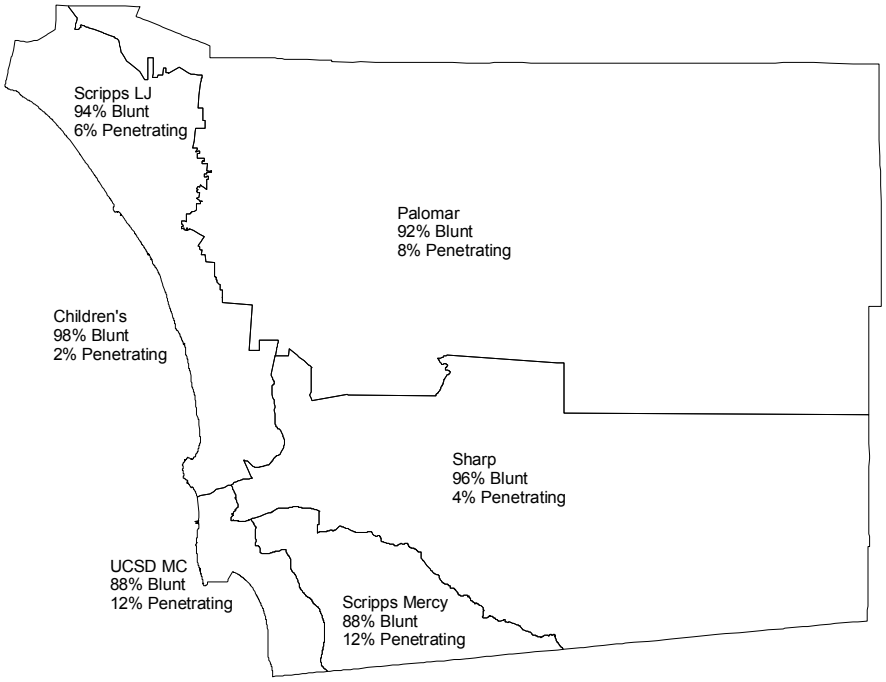
Trauma System Death by Mechanism and Race/Ethnicity

	White	Black	Hispanic	Asian/Other	Missing	Total
Vehicle Related	**176**	**15**	**89**	**13**	**5**	**298**
MV Occupant	*101*	*8*	*55*	*6*	*4*	*174*
Motorcycle	*20*	*2*	*0*	*0*	*0*	*22*
Pedalcycle	*7*	*0*	*3*	*0*	*0*	*10*
Pedestrian	*41*	*5*	*31*	*7*	*1*	*85*
Other Vehicle	*7*	*0*	*0*	*0*	*0*	*7*
Falls	**128**	**2**	**18**	**5**	**2**	**155**
Sports/Recreation	**11**	**0**	**0**	**1**	**0**	**12**
Overall Violence	**191**	**23**	**50**	**16**	**5**	**285**
Suicide	*148*	*6*	*15*	*9*	*1*	*179*
Homicide	*43*	*17*	*35*	*7*	*4*	*106*
Other	**10**	**3**	**9**	**0**	**0**	**22**
Unknown	**9**	**0**	**6**	**2**	**0**	**17**
Total	**525**	**43**	**172**	**37**	**12**	**789**

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

Among trauma patients, 91% of injuries were blunt in nature (motor vehicle related, falls, or assaults with a blunt object). Ninety-eight percent (98%) of Children's Hospital and Health Center's trauma patients sustained blunt injuries. Scripps Mercy Hospital and Medical Center and UCSD Medical Center received the highest percentage of penetrating injuries with 12% of each facility's trauma patients. Penetrating injuries include stabs and gunshot wounds.

Distribution of Trauma Center Patients by Hospital and Injury Type for Fiscal Year 1999/2000



Source: San Diego County Trauma Center Monthly Reports, FY99/00

Trauma System Resources

For most of fiscal year 1999/00, San Diego County had 21 civilian and two military emergency departments. The 21 civilian hospitals included eight base hospitals, five adult trauma centers, and one pediatric trauma center. The prehospital setting consisted of 21 ground transport agencies equipped to deliver advanced life support (ALS) services, two air transport agencies, and 33 basic life support (BLS) agencies. The majority of trauma patients were transported to trauma centers by ground ALS ambulance units.

Trauma Patient Mode of Arrival

Transport Mode	1993/94		1994/95		1995/96		1996/97		1997/98		1998/99		1999/00	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Ground ALS	2,487	59%	2,553	62%	2,694	63%	2,740	64%	3,268	66%	3,128	63%	3,143	62%
Air ALS	686	16%	587	14%	535	13%	484	11%	611	12%	598	12%	525	10%
Ground BLS	145	3%	129	3%	149	4%	126	3%	107	2%	87	2%	106	2%
Air BLS	6	0%	12	0%	11	0%	9	0%	12	0%	15	0%	5	0%
Interfacility	750	18%	637	16%	646	15%	660	16%	668	13%	843	17%	796	16%
Walk In	142	3%	148	4%	193	5%	206	5%	241	5%	274	5%	261	5%
Other/Unreported	19	0%	19	0%	22	1%	28	1%	44	1%	50	1%	257	5%
Total	**4,235**	**100%**	**4,085**	**100%**	**4,250**	**100%**	**4,253**	**100%**	**4,951**	**100%**	**4,995**	**100%**	**5,093**	**100%**

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 93/94 - 99/00.

The mean time spent on scene with a trauma patient, prior to transport, was 19 minutes during fiscal year 99/00. This ranged from 16 minutes for basic life support (BLS) air transport agencies to 22 minutes for ALS air medical units. Prolonged scene times can be attributed to the type of call, complicated extrication procedures, road conditions, and difficulty accessing patients.

Mean Scene Time by Mode of Arrival

Transport Mode	Scene Time in Minutes													
	1993/94		1994/95		1995/96		1996/97		1997/98		1998/99		1999/00	
	Range	Mean	Range	Mean	Range	Mean	Range	Mean	Range	Mean	Range	Mean	Range	Mean
Ground ALS	0-121	15	0-218	15	0-107	15	1-72	16	1-336	18	0-88	18	0-86	18
Air ALS	1-99	31	4-120	26	5-120	22	1-71	21	5-110	25	4-123	24	2-145	22
Ground BLS	1-85	17	1-71	21	1-83	20	6-59	19	4-33	17	5-52	20	5-45	18
Air BLS	38-150	48	5-26	16	20-36	29	*	*	8-24	14	10-24	15	11-22	16
Overall	**0-150**	**18**	**0-218**	**17**	**0-120**	**16**	**1-72**	**17**	**1-336**	**19**	**0-123**	**19**	**0-145**	**19**

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry, FY 93/94-99/00.

Trauma Patient Outcomes

Please note that the following section only includes patients who were admitted to designated trauma centers and does not include patients who died at a non-trauma center or on scene. Of the trauma patients who were admitted to designated trauma centers, 95% survived.

The severity of a trauma patient's injuries is calculated by using the Injury Severity Score (ISS). The ISS increases in relation to the severity of the injuries. Trauma Patients with an ISS of less than 15 have an approximate 99% survival rate in San Diego County. As shown in the table below, as a patient's ISS increases to 15 or more, the survival rate from injuries decreases to 83%.

Trauma Patient Injury Severity

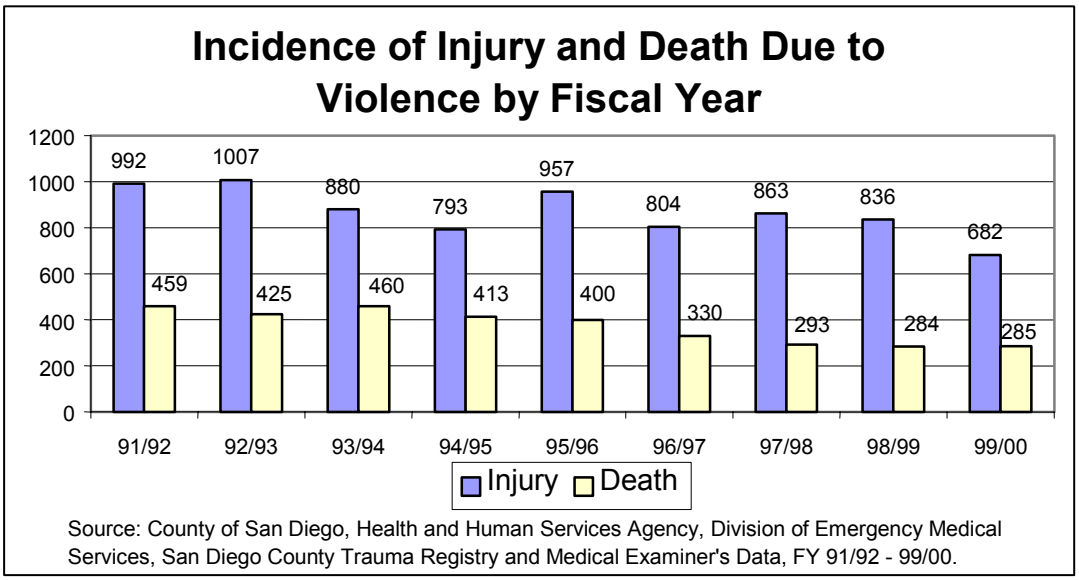
Fiscal Year	Injury Severity Score					
	<9		9-14		15+	
	#	%	#	%	#	%
1992/93						
Survived	1,895	99.80%	1,296	99.30%	1,000	77.60%
Expired	4	0.20%	9	0.70%	288	22.30%
1993/94						
Survived	1,721	99.70%	1,239	98.80%	986	78.50%
Expired	5	0.30%	14	1.20%	270	21.40%
1994/95						
Survived	1,598	99.70%	1,236	99.50%	944	76.00%
Expired	4	0.30%	5	0.50%	298	24.00%
1995/96						
Survived	1,851	99.99%	1,321	99.40%	1,072	80.54%
Expired	1	0.01%	8	0.60%	259	19.46%
1996/97						
Survived	1,959	99.70%	1,362	99.80%	932	80.00%
Expired	5	0.30%	3	0.20%	233	20.00%
1997/98						
Survived	2,297	99.78%	1,381	99.42%	977	81.01%
Expired	5	0.21%	8	0.58%	229	18.99%
1998/99						
Survived	2,301	99.57%	1,392	99.00%	1,057	82.71%
Expired	10	0.21%	14	1.00%	221	17.29%
1999/00*						
Survived	2329	99.53%	1503	99.40%	954	82.81%
Expired	11	0.47%	9	0.60%	198	17.19%

*89 patients had missing injury severity scores.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry: FY 92/93 - 99/00.

1 The Injury Severity Score (ISS) is a modification of the Abbreviated Injury Scale (AIS) developed to deal with multiple injuries. The ISS incorporates the AIS scores for the most significant injuries in three different body regions. The ISS is calculated by summing the squares of the AIS scores for these injuries. AIS scores up to five are squared, so that the maximum ISS is 75. An AIS score of 6 in any body region is an automatic ISS of 75.

Overall Violent Injury

Violence that results in injury can be interpersonal (assault, homicide) or self-inflicted. In the San Diego County trauma system, traumatic interpersonal injury and death occurred 2.7 times as often as self inflicted violence, but 69% of self-inflicted injuries resulted in death, compared with only 15% of injuries inflicted by another person. Non-fatal injuries due to violence decreased by 18% from FY 98/99 to 99/00, while the number of violent deaths was almost unchanged.



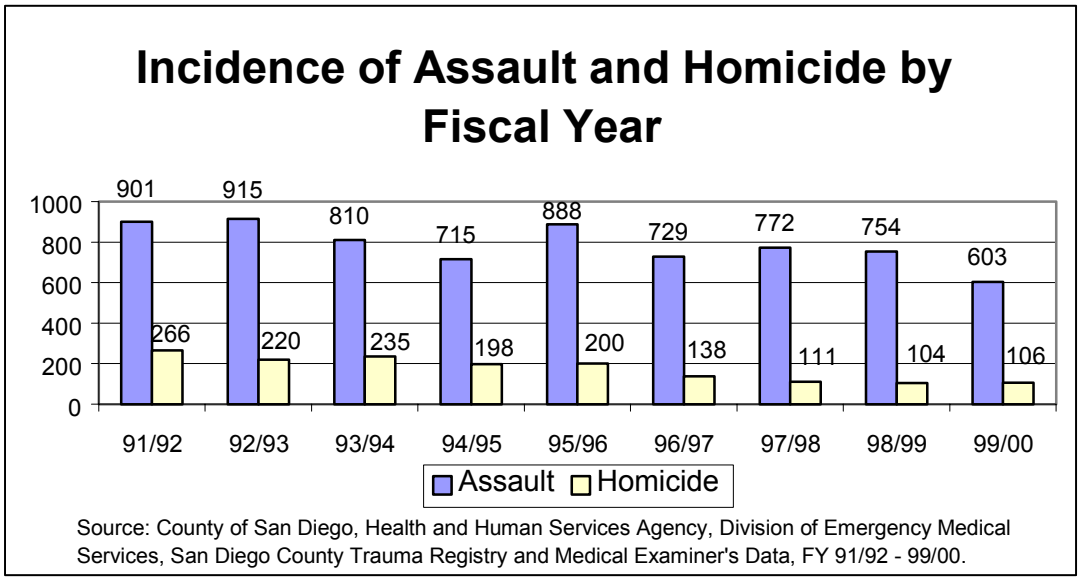
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 91/92 - 99/00.

Homicide and Assault

Homicide was the fourth leading cause of traumatic death and accounted for the third greatest number of years of potential life lost. There were nearly six times as many nonfatal traumatic injuries as there were homicides.

Males were disproportionately affected by interpersonal violence, with 86% of nonfatal injuries and 71% of homicides.

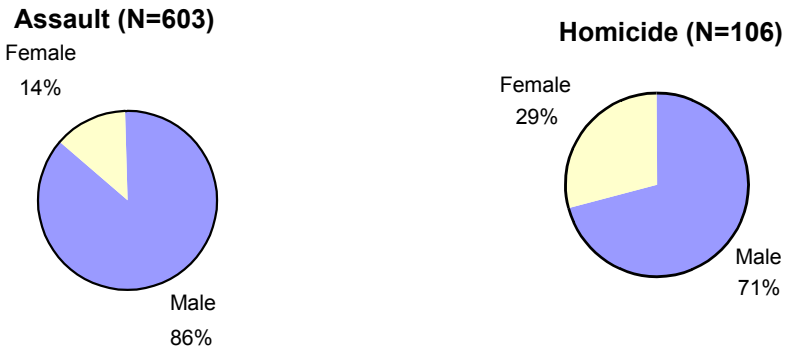
Over the nine years shown, the number of assaults decreased by 33%, and the number of homicides decreased 60%. This accounted for nearly the entire change in the number of violent injuries and deaths overall during this time period.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 91/92 - 99/00.

In reviewing the number of incidents compared to the population base for specific age groups and gender, males 20-24 years of age were at highest risk for homicide (11.05 per 100,000) and males aged 15-19 were at greatest risk of assault (97.52 per 100,000). The highest-risk age group for females was younger than five years, with a rate of 12.93.

Incidence of Assault and Homicide by Gender



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 99/00; Population Estimates, SANDAG

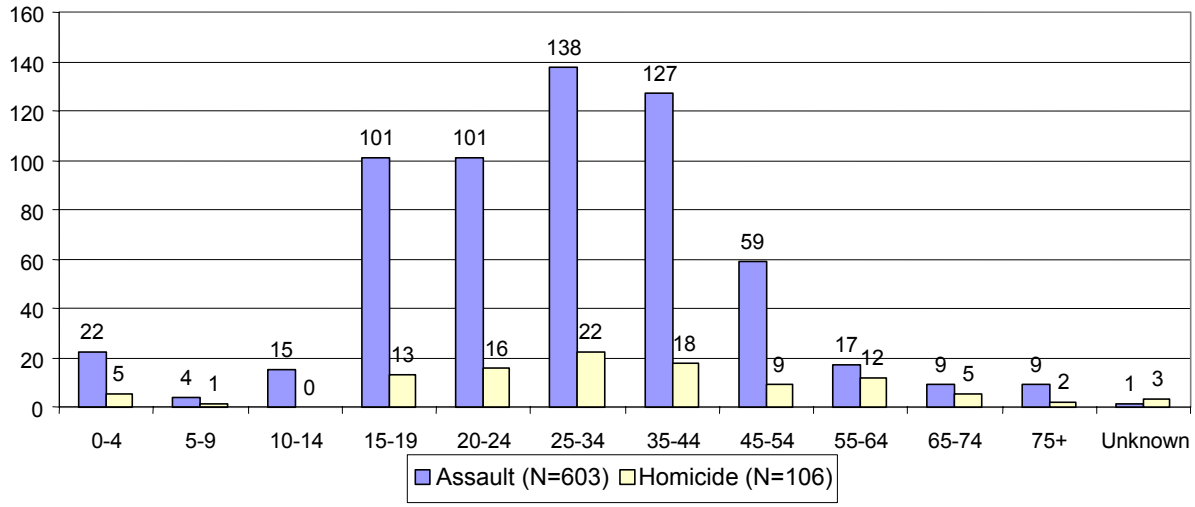
Incidence and Rate of Assault and Homicide by Age Group and Gender

	Assault						Homicide						Overall Total	
	Male		Female		Total		Male		Female		Total			
	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate
0-4	7	5.91	15	12.93	22	9.38	3	*	2	*	5	2.13	27	11.51
5-9	2	*	2	*	4	*	0	-	1	*	1	*	5	2.24
10-14	12	11.42	3	*	15	7.33	0	-	0	-	-	-	15	7.33
15-19	96	97.52	5	5.28	101	52.32	10	10.16	3	*	13	6.73	114	59.05
20-24	97	76.56	4	*	101	45.14	14	11.05	2	*	16	7.15	117	52.29
25-34	128	54.28	10	4.87	138	31.27	18	7.63	4	*	22	4.99	160	36.26
35-44	102	41.93	25	10.93	127	26.91	13	5.34	5	2.19	18	3.81	145	30.73
45-54	48	26.35	11	6.23	59	16.44	5	2.74	4	*	9	2.51	68	18.95
55-64	14	12.76	3	*	17	7.55	9	8.20	3	*	12	5.33	29	12.88
65-74	7	8.72	2	*	9	5.13	2	*	3	*	5	2.85	14	7.98
75+	7	11.12	2	*	9	5.64	1	*	1	*	2	*	11	6.89
Unknown	1		0		1		0		3		3		4	
Total	**521**	**35.24**	**82**	**5.72**	**603**	**20.71**	**75**	**5.07**	**31**	**2.16**	**106**	**3.64**	**709**	**24.35**

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 99/00; Population Estimates, SANDAG
*Rates not calculated on fewer than five incidents.

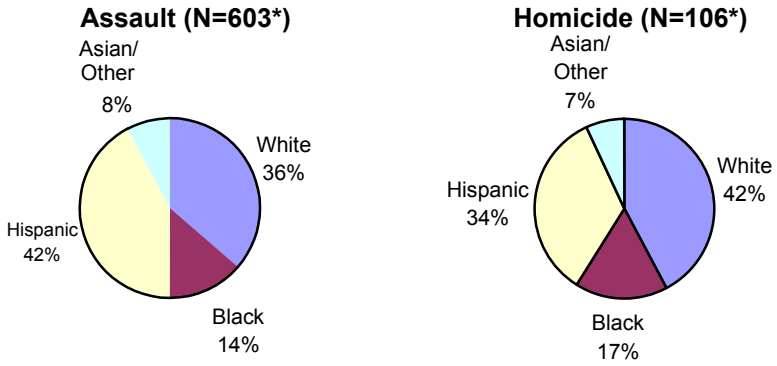
Violent interpersonal injuries were seen primarily in teenagers and younger adults. Persons aged 15-44 years sustained 65% of all homicides and 77% of all assaults. The highest incidence of injuries due to assaults and of homicides was in 25-34 year olds. Hispanics and Whites had the highest incidence of homicide and assault, but the highest rates (i.e., the most risk) were in the Black population.

Incidence of Assault and Homicide by Age Group



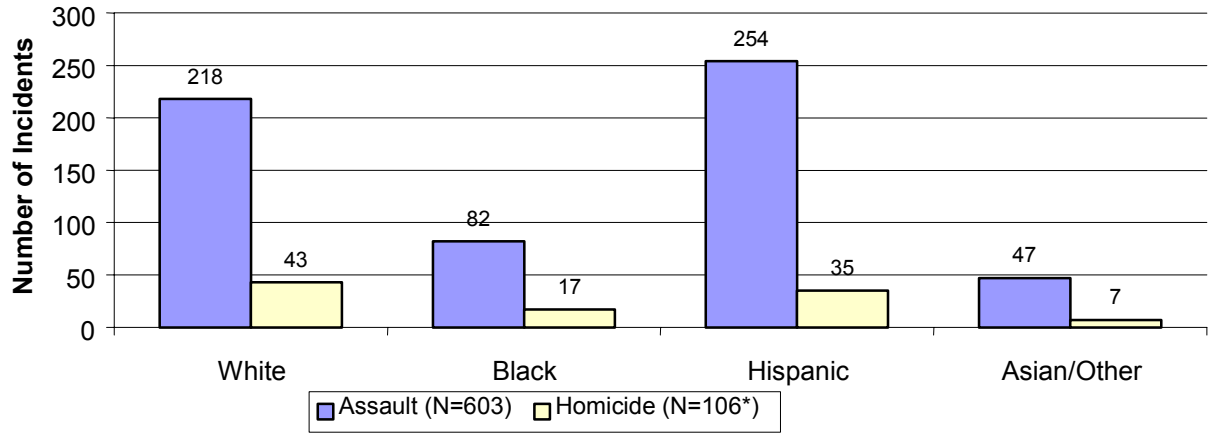
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

Incidence of Assault and Homicide by Race/Ethnicity



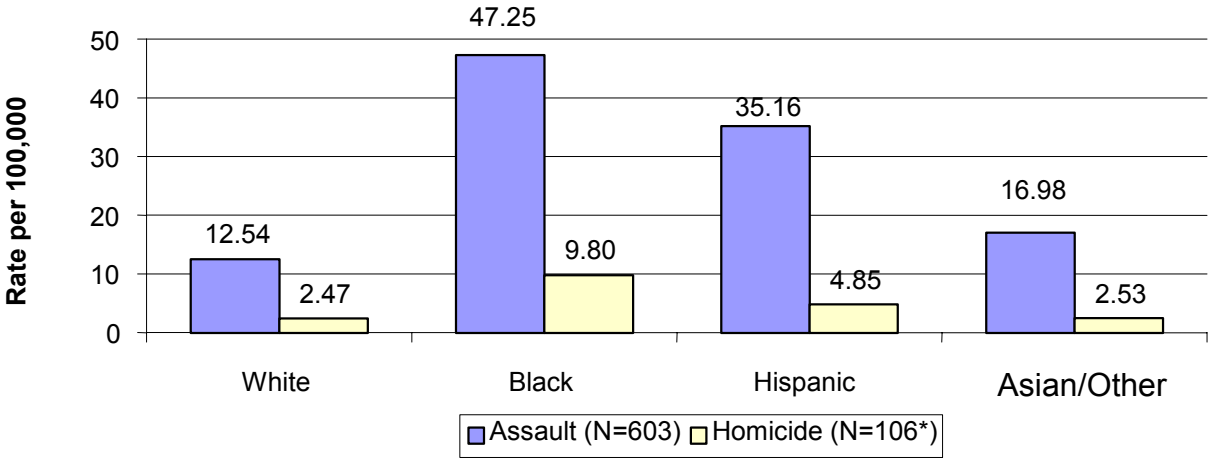
*Total includes two assaults and four homicides with unspecified race/ethnicity
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

Incidence of Assault and Homicide by Race/Ethnicity



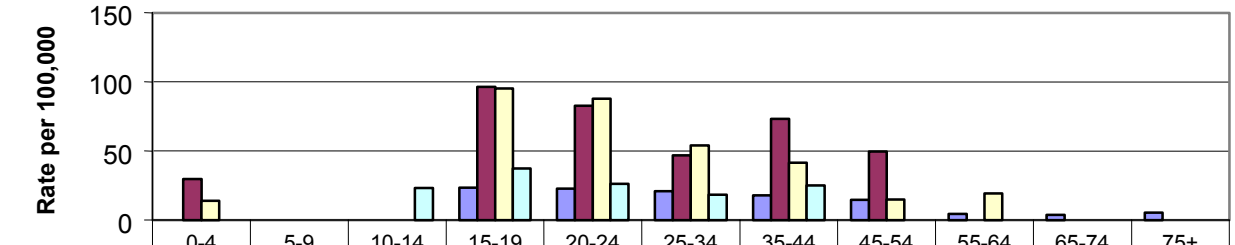
*Total includes four homicides with unspecified race/ethnicity
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

Rates of Assault and Homicide by Race/Ethnicity



*Total includes four homicides with unspecified race/ethnicity
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

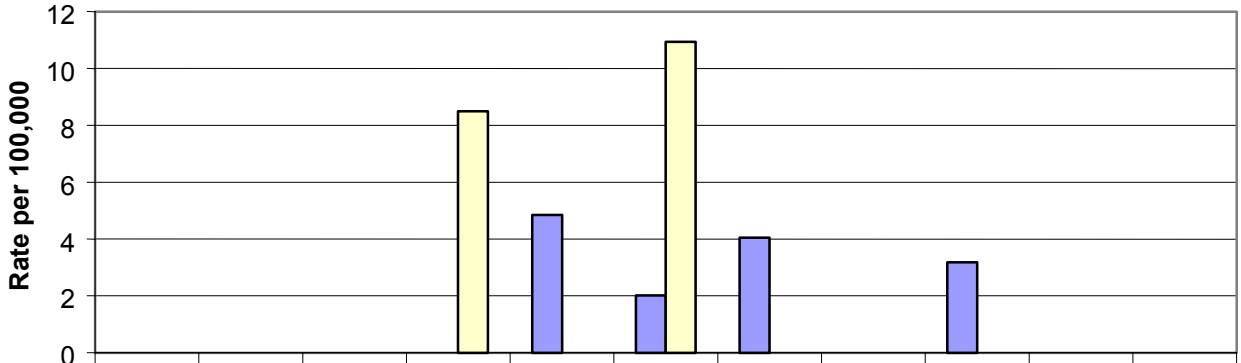
Assault Rates by Age and Race/Ethnicity



	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75+
White	*	*	*	23.41	22.66	20.90	17.85	14.68	4.45	3.73	5.35
Black	29.64	*	*	96.31	82.71	46.86	73.09	49.46	*	*	*
Hispanic	13.96	*	*	95.11	87.74	53.86	41.45	14.79	19.18	*	*
Asian/Other	*	*	23.26	37.38	26.26	18.28	25.10		*	*	*

Note: Rates not calculated on fewer than five incidents
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00; Population Estimates, SANDAG.

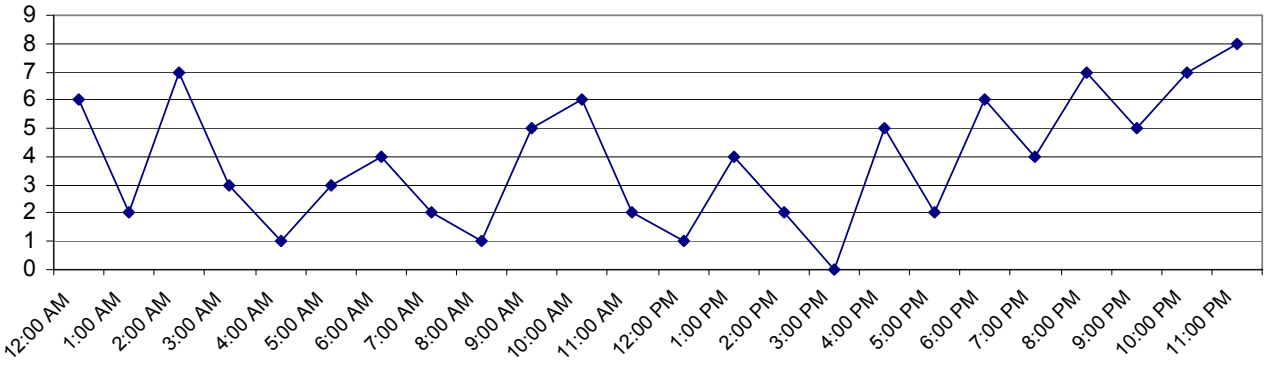
Homicide Rates by Age and Race/Ethnicity



	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75+
White	*	*	*	*	4.86	2.01	4.04	*	3.18	*	*
Hispanic	*	*	*	8.49	*	10.94	*	*	*	*	*

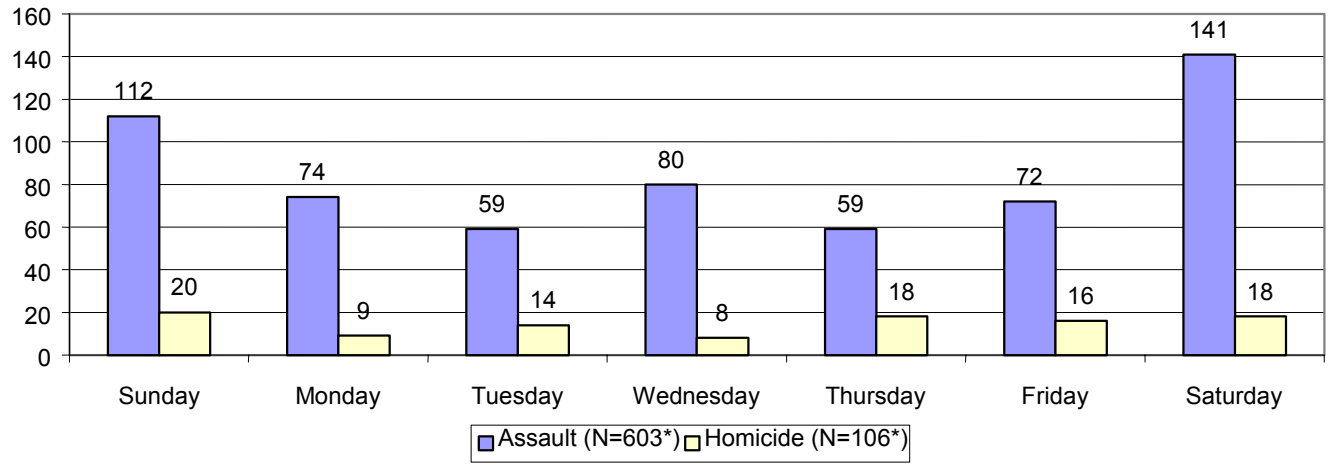
Note: Rates not calculated on fewer than five incidents. Rates could not be calculated for any age group of Blacks or Asian/Others
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00; Population Estimates, SANDAG.

During FY 99/00, homicides were more common during evening hours and on weekends. Twenty nine percent of homicides occurred between the hours of 8:00 p.m. and midnight. Thirty seven percent of homicides and 42% of assaults occurred on weekends. Both homicides and assaults had higher levels during the summer months (July through September), which had 27% of assaults and 41% of homicides for the year.



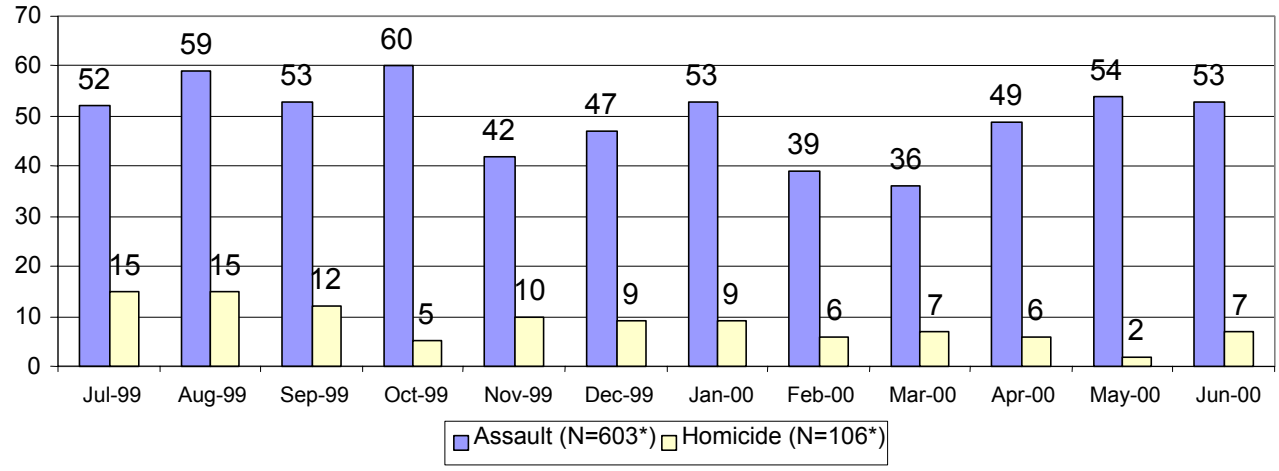
All times are in one hour increments, for example, 6:00 - 6:59 = 6:00.
There were 13 deaths with an unidentified time of injury.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

Incidence of Assault and Homicide by Day of Week



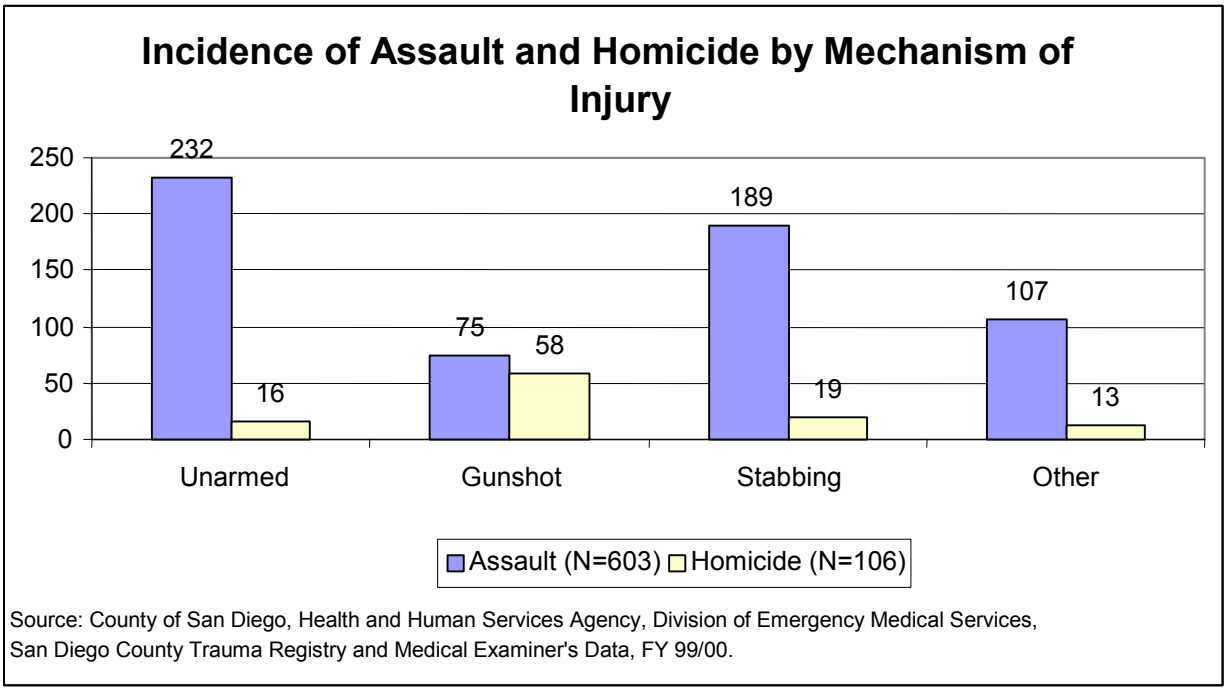
*Total includes six assaults and three homicides with unknown incident dates.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

Incidence of Assault and Homicide by Month



*Total includes six assaults and three homicides with unknown incident dates.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

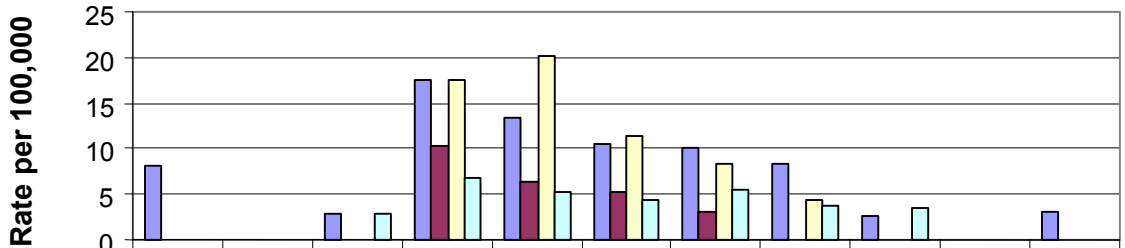
The following figure shows a breakdown of mechanism of injury for homicides and assaults. Unarmed assaults were the leading cause of interpersonal violent injury, followed by stabbing and other assaults. The leading cause of traumatic interpersonal death was gunshot wounds, followed by stabbing and unarmed assaults. Unarmed assaults include any assault not involving a gunshot or stab wound, and can include being pushed from a vehicle, an unarmed brawl or fight, or child abuse.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

Unarmed assault was the primary cause of assault injury for children younger than 15 years and for adults 35 years of age and older. Stabbings were more common among trauma patients between 15 and 34 years of age.

Injury Rates due to Assault by Age and Mechanism

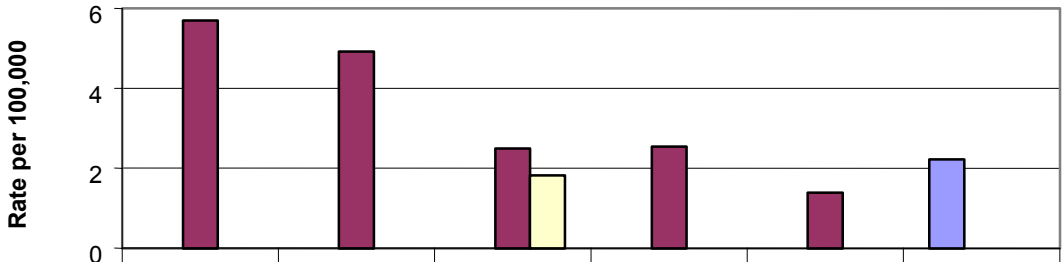


	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75+
Unarmed Assault	8	*	3	18	13	10	10	8	3	*	3
Assault by Gun	*	*	*	10	6	5	3	*	*	*	*
Assault by Stab	*	*	*	18	20	11	8	4	*	*	*
Other Violence	*	*	3	7	5	4	6	4	4	*	*

*Rates not calculated on fewer than five incidents
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

The use of firearms was highly associated with trauma patient fatalities. Firearms were the responsible method in 55% of all traumatic homicides, with the highest rate of homicide due to a gunshot wound among 15-19 year olds (5.70). Firearms were the primary mechanism of injury in homicides for every age group between 15 and 44.

Homicide Rates by Age and Mechanism

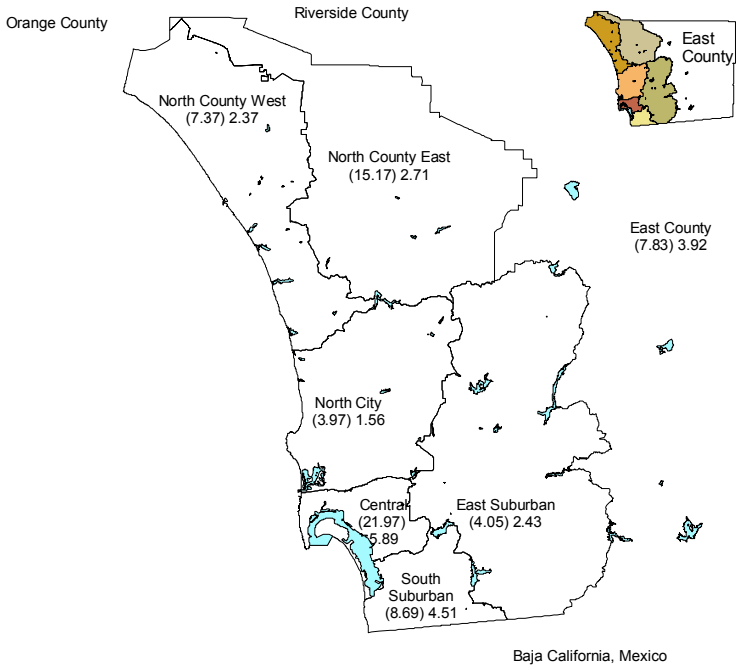


	15-19	20-24	25-34	35-44	45-54	55-64
Unarmed Assault	*	*	*	*	*	2.22
Assault by Gun	5.70	4.92	2.49	2.54	1.39	*
Assault by Stab	*	*	1.81	*	*	*

Rates not calculated for fewer than five incidents: Rates could not be calculated for those younger than 15 over the age of 64
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

Incidence and rates of injury by subregional areas (SRA) and Major Statistical Areas (MSA) were calculated from the zip code where the incident took place. The incident zip code was available for 50% of non-fatal assaults and for 89% of homicides. Homicide and assault rates were more than two times higher in the Central MSA than in other areas of the county. When incident zip code was known, the Central MSA accounted for 46% of assaults and 39% of homicides. Population estimates for each of the MSAs can be found in Appendix B.

Assault and Homicide Rates per 100,000 by San Diego Major Statistical Area



Legend
Rates displayed in parentheses () reflect assault while those not in parentheses indicate homicide.
*Rates not calculated on fewer than five incidents.
Please note there were 304 assaults and 12 homicides with an unknown incident zip code.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 99/00; Population estimates, San Diego Association of Governments (SANDAG)

Incidence of Homicide and Assault by Mechanism and San Diego County MSA and SRA

MSA	SRA	Unarmed Assault		Gunshot		Stabbing		Other Assault		Overall Total
		Assault	Homicide	Assault	Homicide	Assault	Homicide	Assault	Homicide	
CENTRAL	Central San Diego	22	0	6	7	12	1	9	1	58
	Peninsula	2	0	0	0	1	1	3	0	7
	Coronado	1	0	0	0	1	0	0	0	2
	National City	3	0	2	4	7	2	1	1	20
	Southeast San Diego	8	1	8	7	7	2	5	1	39
	Mid-City	15	1	5	5	15	1	5	2	49
	Total	**51**	**2**	**21**	**23**	**43**	**7**	**23**	**5**	**175**
NORTH CITY	Kearny Mesa	4	1	2	1	0	1	2	1	12
	Coastal	4	0	0	1	3	1	0	0	9
	University	1	1	0	0	2	0	0	0	4
	Del Mar-Mira Mesa	1	1	0	0	1	0	0	0	3
	North San Diego	1	0	1	0	0	1	1	0	4
	Poway	4	0	0	0	0	0	0	0	4
	Miramar	1	0	0	0	0	0	0	0	1
	Elliott-Navajo	0	0	0	1	0	1	0	0	2
	Total	**16**	**3**	**3**	**3**	**6**	**4**	**3**	**1**	**39**
SOUTH SUBURBAN	Sweetwater	0	1	0	3	0	0	0	0	4
	Chula Vista	3	0	2	3	2	0	2	1	13
	South Bay	5	1	3	4	7	0	3	1	24
	Total	**8**	**2**	**5**	**10**	**9**	**0**	**5**	**2**	**41**
EAST SUBURBAN	Jamul	0	0	0	0	1	0	0	0	1
	Spring Valley	1	1	1	1	1	0	3	0	8
	Lemon Grove	0	0	0	0	2	0	3	0	5
	La Mesa	1	0	0	1	2	0	0	0	4
	El Cajon	1	0	1	1	1	0	0	1	5
	Santee	0	0	0	1	0	0	0	0	1
	Lakeside	0	0	0	1	0	1	0	0	2
	Harbison Crest	0	0	0	2	0	0	1	0	3
	Alpine	0	0	1	2	0	0	0	0	3
	Ramona	0	0	0	0	0	0	0	0	0
	Total	**3**	**1**	**3**	**9**	**7**	**1**	**7**	**1**	**32**
NORTH COUNTY WEST	San Dieguito	0	0	0	0	0	0	1	0	1
	Carlsbad	0	0	0	0	2	1	0	0	3
	Oceanside	8	3	5	2	10	0	2	2	32
	Pendleton	0	0	0	1	0	0	0	0	1
	Total	**8**	**3**	**5**	**3**	**12**	**1**	**3**	**2**	**37**
NORTH COUNTY EAST	Escondido	12	0	5	4	13	2	3	0	39
	San Marcos	2	0	1	0	0	0	0	0	3
	Vista	5	0	1	0	3	1	0	0	10
	Valley Center	0	1	0	0	2	0	1	1	5
	Pauma	1	0	0	0	0	0	0	0	1
	Fallbrook	2	0	1	1	3	0	1	0	8
	Total	**22**	**1**	**8**	**5**	**21**	**3**	**5**	**1**	**66**
EAST COUNTY	Palomar-Julian	0	0	0	0	0	0	1	0	1
	Laguna-Pine Valley	0	0	0	0	0	0	0	0	0
	Mountain Empire	1	0	0	1	0	0	0	0	2
	Anza Borrego Springs	0	0	0	0	0	0	0	0	0
	Total	**1**	**0**	**0**	**1**	**0**	**0**	**1**	**0**	**3**
OTHER/ UNKNOWN	Out of County	11	1	6	0	12	0	5	0	35
	Unknown	112	3	24	4	79	3	55	1	281
	Total	**123**	**4**	**30**	**4**	**91**	**3**	**60**	**1**	**316**
TOTAL		**232**	**16**	**75**	**58**	**189**	**19**	**107**	**13**	**709**

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 99/00.

Incidence of Homicide and Assault by Mechanism and County Major Statistical Area

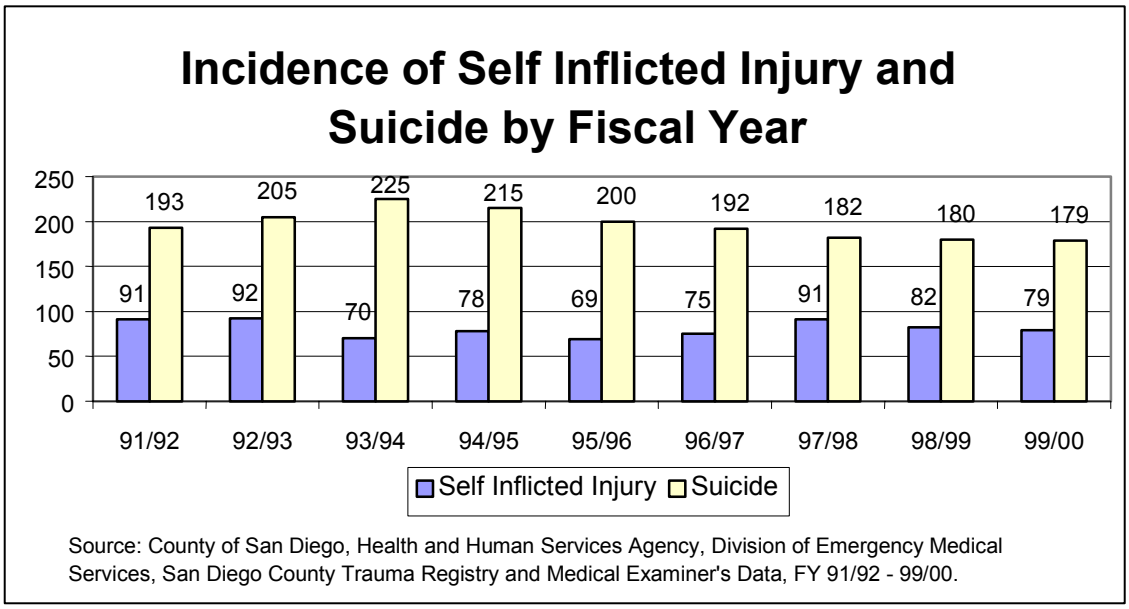
	Unarmed Assault		Gunshot		Stabbing		Other Assault		Overall Total
	Assault	Homicide	Assault	Homicide	Assault	Homicide	Assault	Homicide	
Central	51	2	21	23	43	7	23	5	175
North City	16	3	3	3	6	4	3	1	39
S Suburban	8	2	5	10	9	0	5	2	41
E Suburban	3	1	3	9	7	1	7	1	32
North Cnty West	8	3	5	3	12	1	3	2	37
North Cnty East	22	1	8	5	21	3	5	1	66
East Cnty	1	0	0	1	0	0	1	0	3
Oth/Unk	123	4	30	4	91	3	60	1	316
Overall Total	**232**	**16**	**75**	**58**	**189**	**19**	**107**	**13**	**709**

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 99/00.

Suicide and Self Inflicted Injury

Suicide[1] was the leading cause of traumatic death and contributed the second highest number of years of potential life lost. During FY 99/00, for every trauma patient who sustained a non-fatal self-inflicted injury, two died as a result of their injuries.

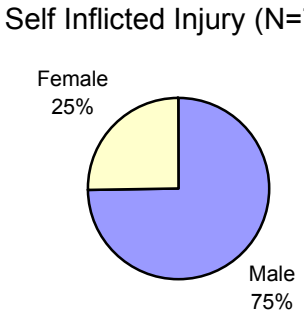
The figure below shows the number of suicides and self inflicted injuries by fiscal year. The number of suicides peaked in FY 93/94 (225). The number of suicides and self-inflicted injuries in FY 99/00 did not change significantly from the previous fiscal year

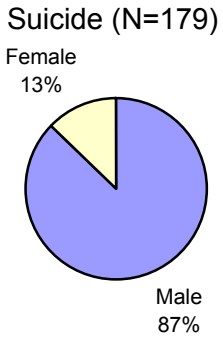


Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 91/92 - 99/00.

[1] For the purpose of this report, suicide and self inflicted injury exclude deaths and severe injuries due to poisoning, drowning, or suffocation as they are considered medical rather than traumatic in nature.

Incidence of Self Inflicted Injury and Suicide by Gender





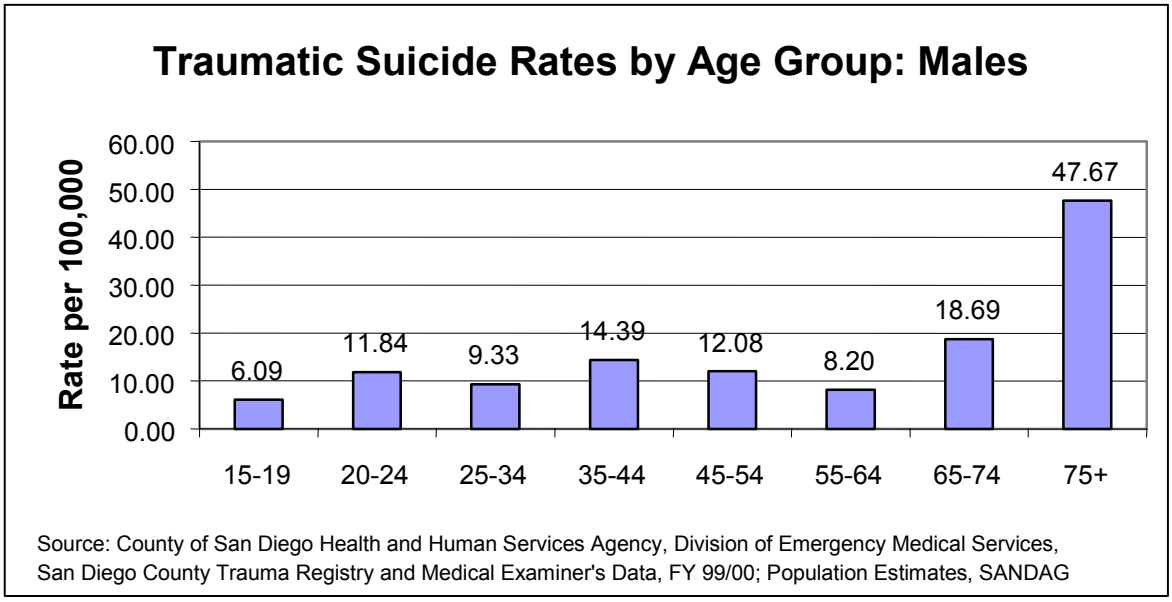
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 99/00; Population Estimates, SANDAG

Males made up 75% of traumatic self-inflicted injuries and 87% of suicides from trauma. Males had a higher rate of suicide and self-inflicted injury than females in every age group. Males 75 years of age and older had a four-fold greater risk of traumatic suicide than males between the ages of 20 and 64.

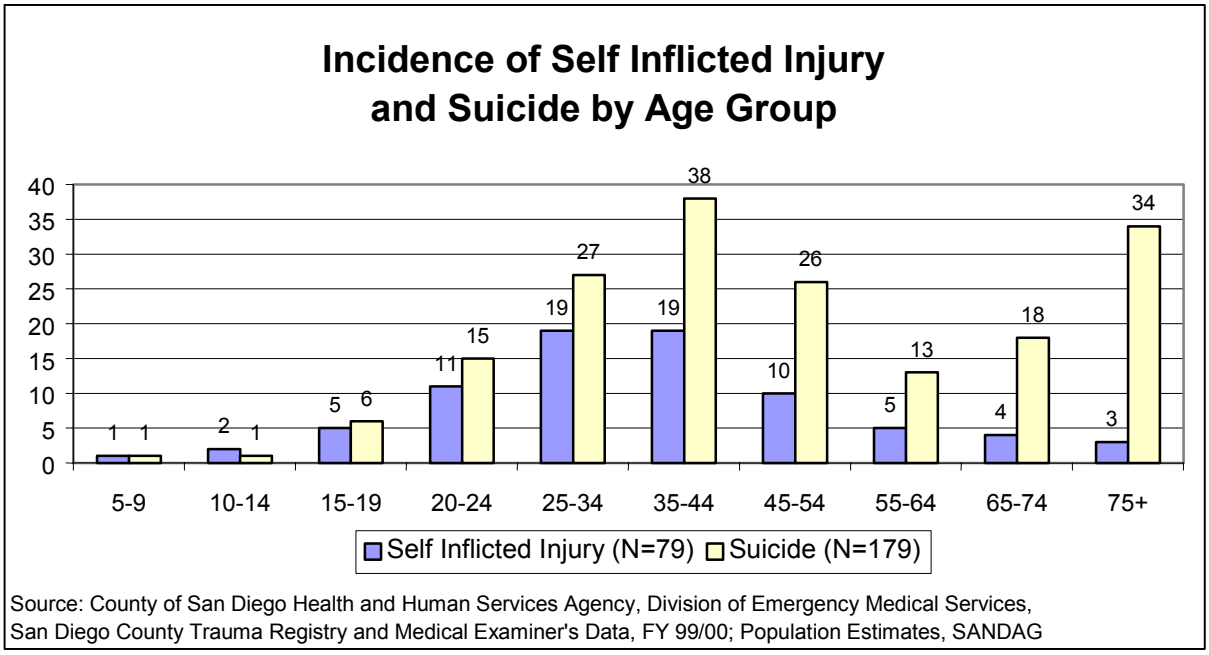
Incidence and Rate of Self Inflicted Injury and Suicide by Age Group and Gender

	Self Inflicted Injury						Suicide						Overall Total	
	Male		Female		Total		Male		Female		Total			
	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate
5-9	1	*	0	*	1	*	1	0.86	0	*	1	*	2	0.90
10-14	1	*	1	*	2	*	1	0.95	0	-	1	0.49	3	1.47
15-19	5	5.08	0	-	5	2.59	6	6.09	0	*	6	3.11	11	5.70
20-24	10	7.89	1	*	11	4.92	15	11.84	0	*	15	6.70	26	11.62
25-34	15	6.36	4	*	19	4.31	22	9.33	5	2.43	27	6.12	46	10.42
35-44	13	5.34	6	2.62	19	4.03	35	14.39	3	*	38	8.05	57	12.08
45-54	6	3.29	4	*	10	2.79	22	12.08	4	*	26	7.25	36	10.03
55-64	3	*	2	*	5	2.22	9	8.20	4	*	13	5.77	18	7.99
65-74	3	*	1	*	4	*	15	18.69	3	*	18	10.26	22	12.54
75+	2	*	1	*	3	*	30	47.67	4	*	34	*	37	23.18
Total	**59**	**3.99**	**20**	**1.40**	**79**	**2.71**	**156**	**10.55**	**23**	**1.61**	**179**	**6.15**	**258**	**8.86**

*Rates not calculated on fewer than five incidents.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 99/00; Population Estimates, SANDAG



Source: County of San Diego Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00; Population Estimates, SANDAG

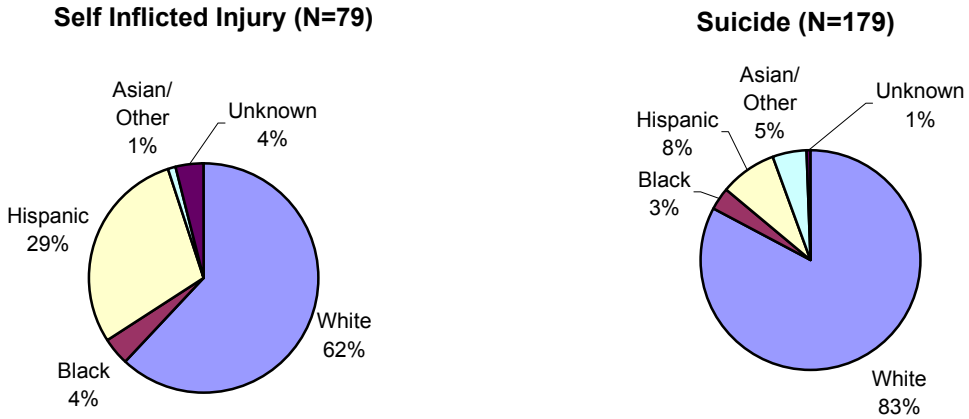


Source: County of San Diego Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00; Population Estimates, SANDAG

While the highest rates of suicide were found in elderly males, the highest numbers of nonfatal injury, and therefore the group with the greatest impact on the trauma system, were between the ages of 20 and 54 years. Seventy five percent of nonfatal self-inflicted injuries and 59% of completed traumatic suicides were in this age range.

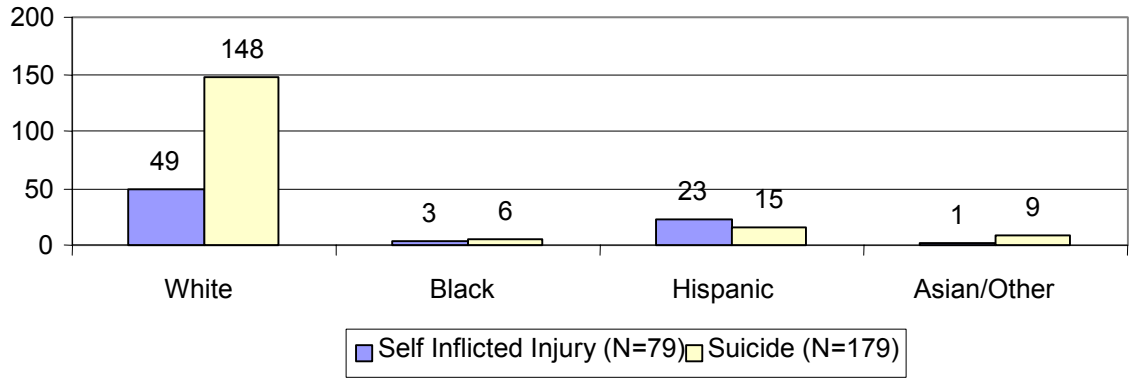
Self-inflicted injury and suicide were more prevalent in the White population, accounting for 65% of self-inflicted injuries and 84% of suicides.

Incidence of Self Inflicted Injury and Suicide by Race/Ethnicity



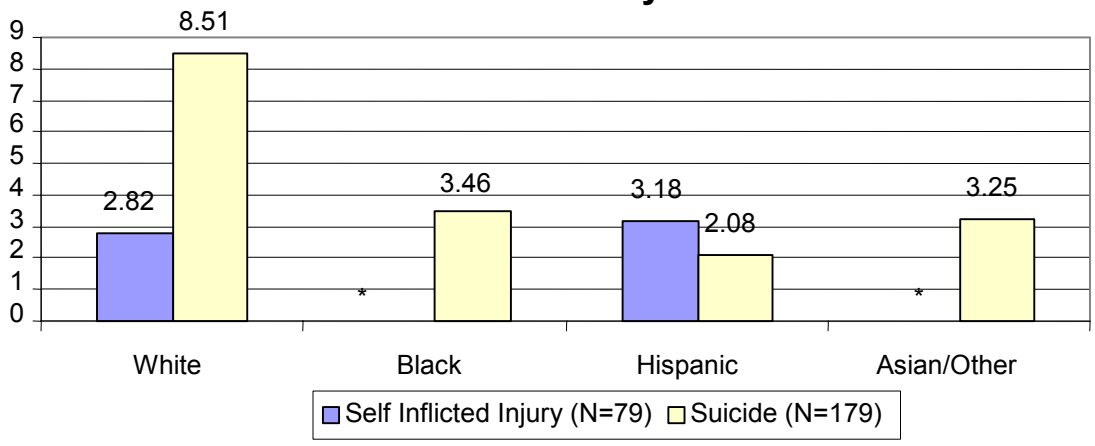
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 99/00

Incidence of Self Inflicted Injury and Suicide by Race/Ethnicity



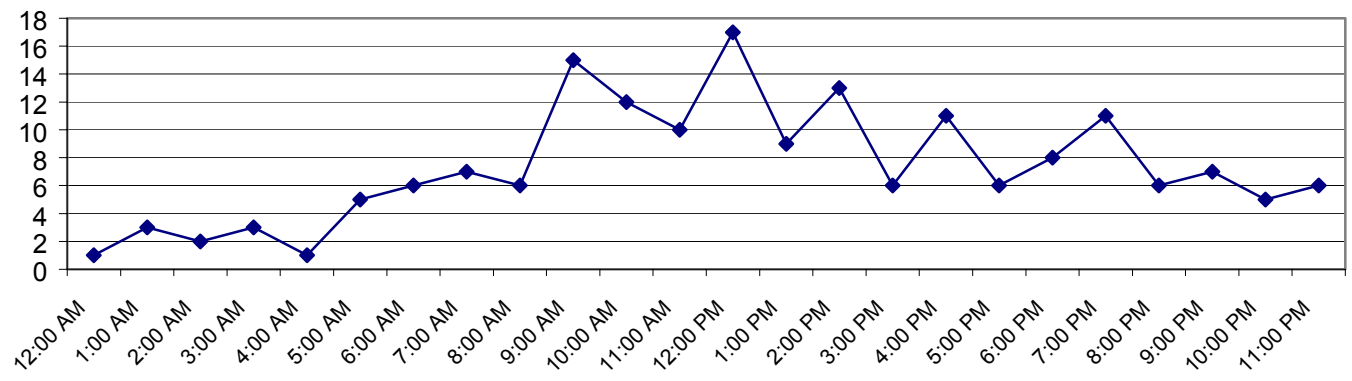
Note: there were 3 self-inflicted injuries and one suicide with unidentified race/ethnicity.
Source: County of San Diego Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

Rates of Self Inflicted Injury and Suicide by Race/Ethnicity

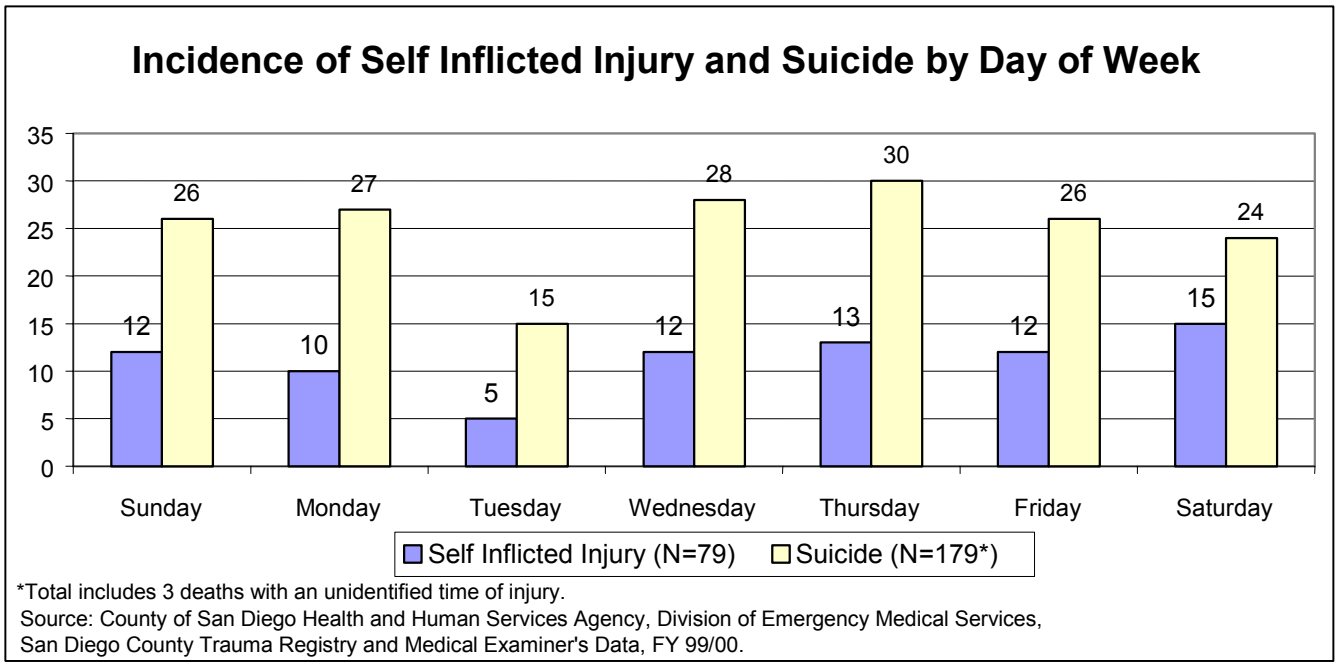


*Rates not calculated on fewer than five incidents
Source: County of San Diego Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00; Population Estimates, SANDAG

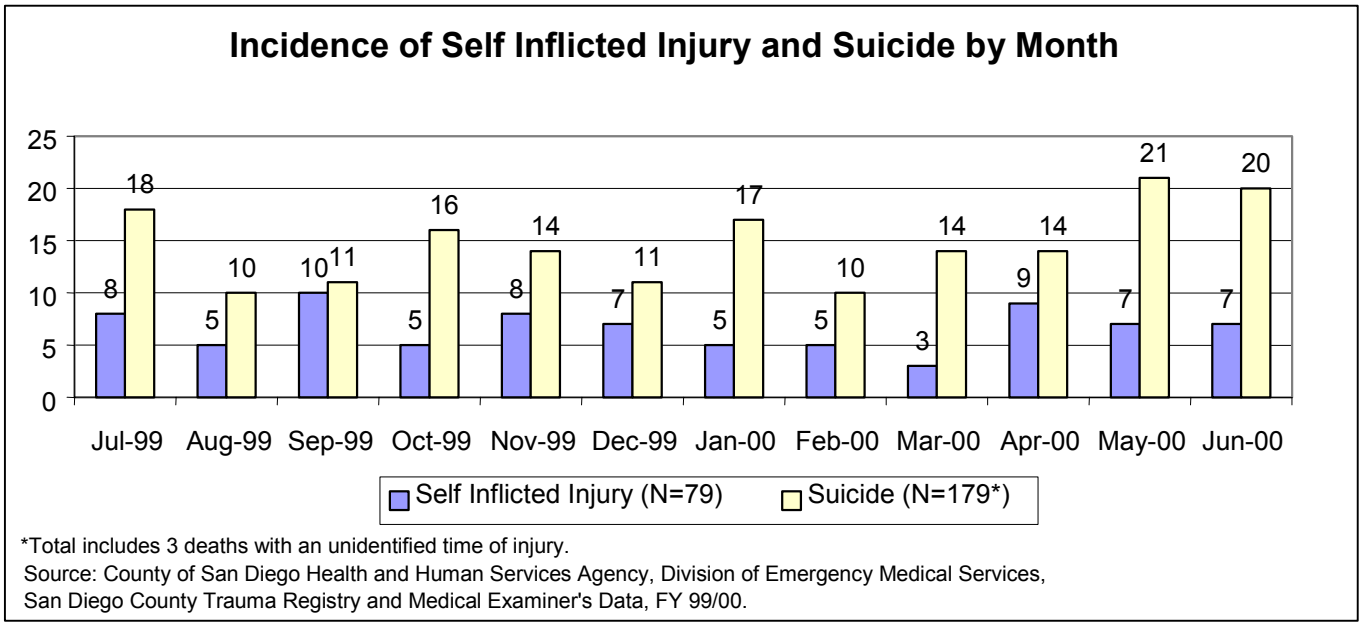
Suicides were reported to occur most frequently after 9:00 a.m. Forty two percent of suicides were between 9 a.m. and 3 p.m. Tuesday had the fewest self-inflicted injuries and suicides, while the greatest number of suicides occurred on Thursday and the most self-inflicted injuries were on Saturday.



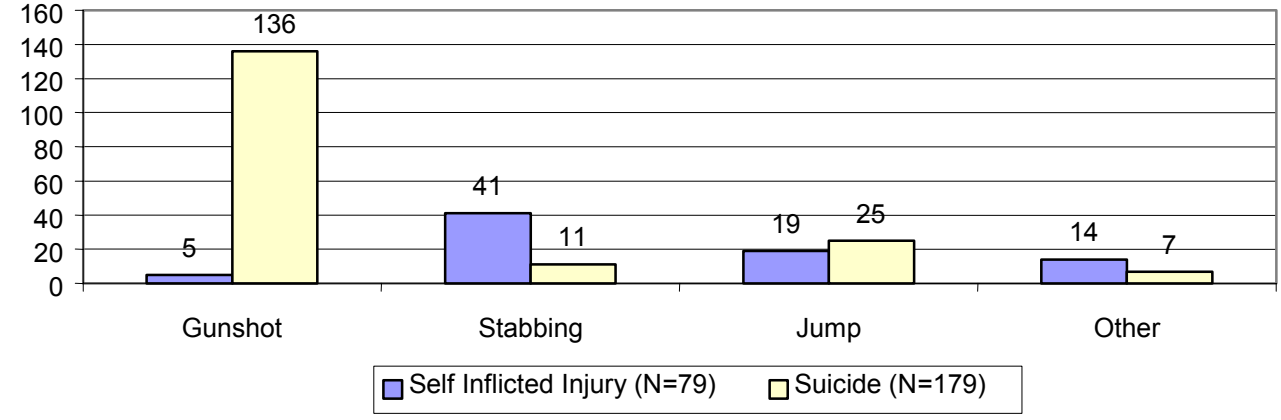
All times are in one hour increments, for example, 6:00 - 6:59 = 6:00.
There were 3 deaths with an unidentified time of injury.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.



*Total includes 3 deaths with an unidentified time of injury.
Source: County of San Diego Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.



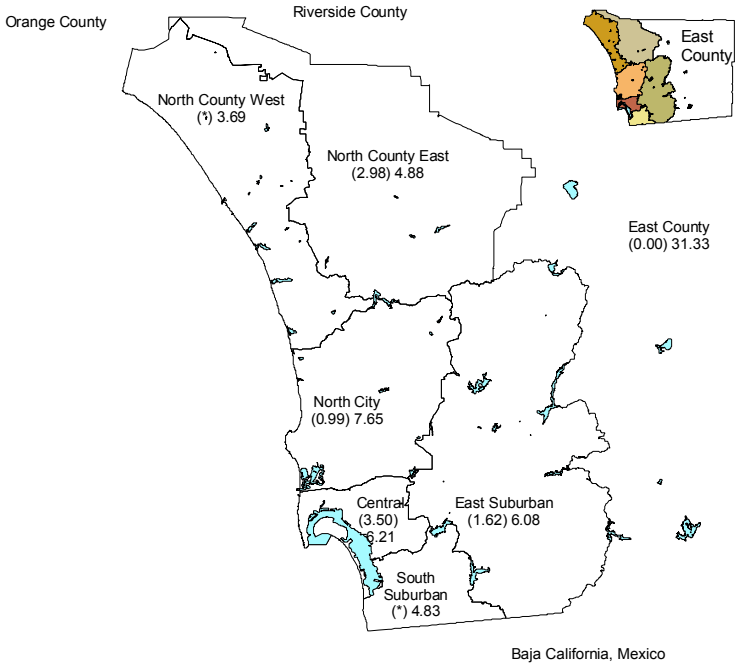
*Total includes 3 deaths with an unidentified time of injury.
Source: County of San Diego Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.



Source: County of San Diego Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

Incidence and rates of injury by subregional areas (SRA) and Major Statistical Areas (MSA) were calculated from the zip code where the incident took place. The incident zip code was available for 67% of non-fatal self-inflicted injuries and for 99% of suicides. The highest rate of self-inflicted injury was in the Central MSA, while East County had the highest rate of completed suicides. Population estimates for each of the MSAs can be found in Appendix B.

Self Inflicted Injury and Suicide Rates per 100,000 by San Diego Major Statistical Area



Legend
Rates displayed in parentheses () reflect self-inflicted injury while those not in parentheses indicate suicide.
*Rates not calculated on fewer than five incidents.
Please note there were 26 self-inflicted injuries and 1 suicide with an unknown incident zip code.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 99/00; Population estimates, San Diego Association of Governments (SANDAG)

Incidence of Self Inflicted Injury and Suicide by Mechanism and Major Statistical Area

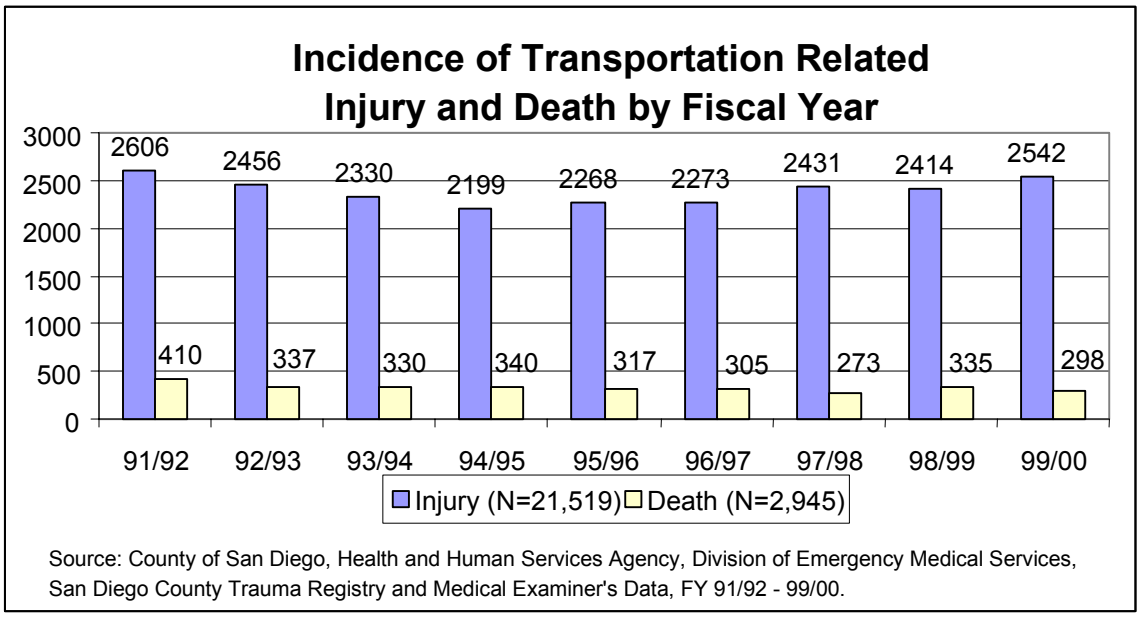
	Gunshot		Stabbing		Jump		Other		Overall Total
	Injury	Death	Injury	Death	Injury	Death	Injury	Death	
Central	2	19	8	3	8	14	4	3	61
North City	0	42	4	6	2	5	1	1	61
S Suburban	1	13	2	0	0	1	0	1	18
E Suburban	0	26	4	1	3	2	1	1	38
North Cnty West	0	12	2	0	0	1	0	1	16
North Cnty East	0	17	6	1	2	0	3	0	29
East Cnty	0	6	0	0	0	2	0	0	8
Oth/Unk	2	1	15	0	4	0	5	0	27
Overall Total	**5**	**136**	**41**	**11**	**19**	**25**	**14**	**7**	**258**

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 99/00.

Transportation Related Injuries

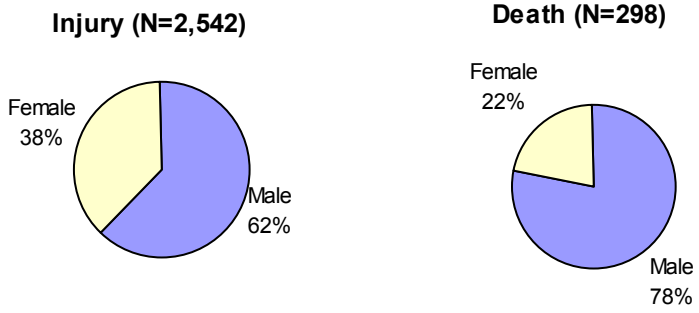
Transportation related crashes are those that occur to motor vehicle occupants, motorcyclists, pedalcyclists, pedestrians struck by motor vehicles, and other vehicle occupants. There were 298 lives lost in transportation related crashes during FY 99/00. For every patient who died as a result of a transportation related crash, more than eight others were injured in such a crash.

The number of severe injuries due to transportation related crashes increased by five percent from the previous fiscal year, while the number of deaths fell 11%.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 91/92 - 99/00.

Incidence of Transportation Related Injury and Death by Gender



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 99/00.

Males made up 62% of injuries and 78% of deaths related to transportation. Rates of both injury and death were substantially higher in males across the age spectrum.

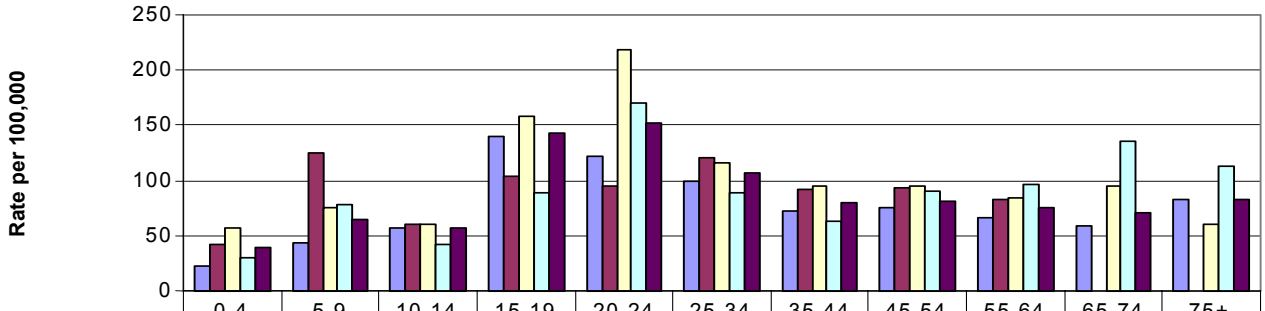
Incidence and Rate of Transportation-Related Injury and Death by Age Group and Gender

	Injury						Death						Overall Total	
	Male		Female		Total		Male		Female		Total			
	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate
0-4	58	48.93	34	29.31	92	39.22	4	*	2	*	6	2.56	98	41.78
5-9	103	89.09	42	38.95	145	64.89	1	*	2	*	3	*	148	66.23
10-14	77	73.25	41	41.23	118	57.68	2	*	3	*	5	2.44	123	60.13
15-19	171	173.70	105	110.98	276	142.96	29	29.46	13	13.74	42	21.76	318	164.72
20-24	216	170.49	126	129.83	342	152.86	41	32.36	5	5.15	46	20.56	388	173.41
25-34	307	130.19	167	81.28	474	107.42	28	11.87	5	2.43	33	7.48	507	114.89
35-44	229	94.14	145	63.42	374	79.25	47	19.32	12	5.25	59	12.50	433	91.76
45-54	193	105.93	100	56.62	293	81.66	31	17.02	5	2.83	36	10.03	329	91.70
55-64	91	82.96	77	66.69	168	74.62	17	15.50	4	*	21	9.33	189	83.94
65-74	56	69.78	68	71.49	124	70.71	13	16.20	6	6.31	19	10.83	143	81.54
75+	63	100.10	70	72.41	133	83.33	15	23.83	9	9.31	24	15.04	157	98.37
Unknown	2		1		3		4		0		4		7	
Total	**1566**	**105.91**	**976**	**68.11**	**2,542**	**87.31**	**232**	**15.69**	**66**	**4.61**	**298**	**10.24**	**2,840**	**97.55**

*Rates not calculated on fewer than five incidents.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 99/00; Population Estimates, SANDAG

The highest rates of severe injury and death were among Hispanics aged 20-24 (218.53 per 100,000 population for injuries, 33.11 per 100,000 for deaths).

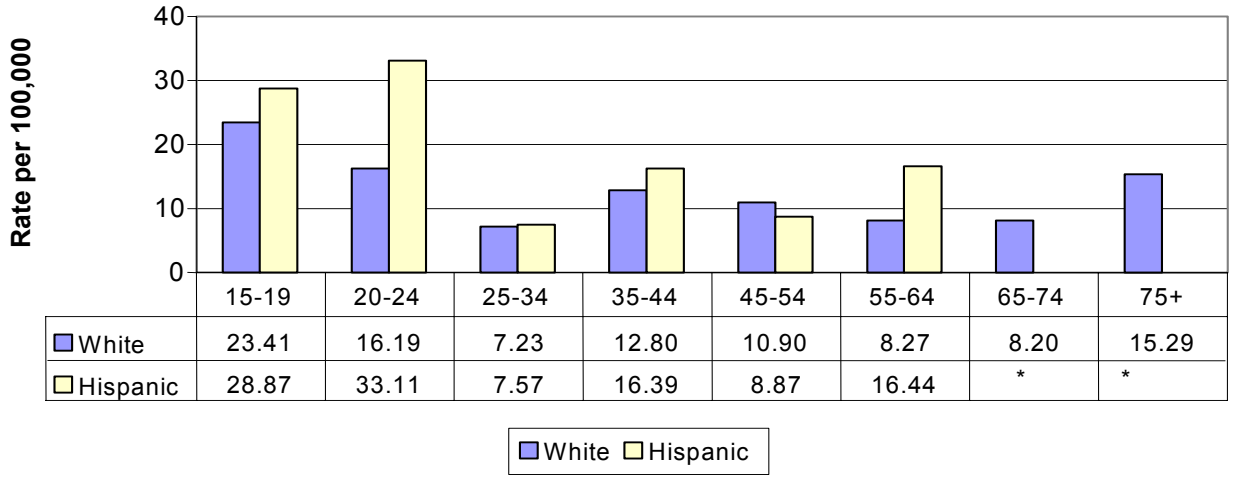
Transportation Related Injury Rates by Age and Race/Ethnicity



	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75+
White	22.58	43.18	57.77	139.46	121.39	99.68	72.73	74.65	66.80	58.15	83.34
Black	41.50	125.22	60.53	103.18	94.52	120.49	91.37	93.42	82.91	*	*
Hispanic	56.92	75.09	60.54	157.95	218.53	116.14	95.44	94.64	84.94	95.43	60.05
Asian/Other	30.82	78.76	41.86	88.77	170.70	89.09	63.89	89.84	96.27	135.75	112.27
Total	39.22	64.89	57.68	142.96	152.86	107.42	79.25	81.66	74.62	70.71	83.33

*Rates not calculated on fewer than five incidents.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00; Population estimates, SANDAG.

Transportation Related Death Rates by Age and Race/Ethnicity

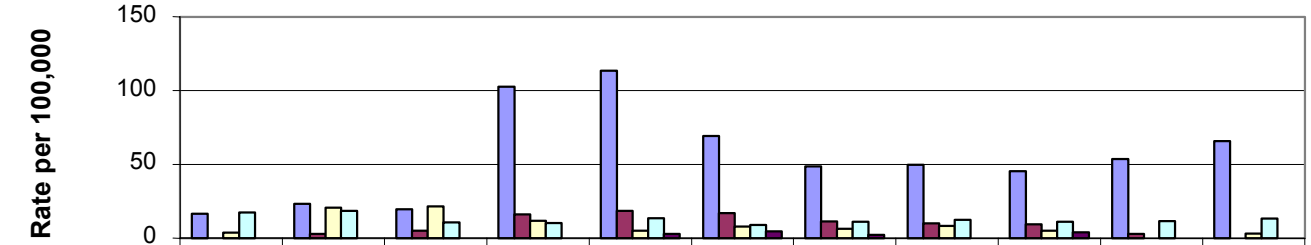


	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75+
White	23.41	16.19	7.23	12.80	10.90	8.27	8.20	15.29
Hispanic	28.87	33.11	7.57	16.39	8.87	16.44	*	*

*Rates not calculated on fewer than five incidents. Rates could not be calculated for Blacks, Asian/Others, or those under 15.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00; Population estimates, SANDAG.

Motor vehicle occupant crashes accounted for a significantly higher rate of death and severe injury than other transportation related mechanisms of injury for most age groups. The highest rate of transportation related severe injury was found in motor vehicle occupants aged 20-24 (113.52 per 100,000), while the highest death rate was in motor vehicle occupants 15-19 years of age (18.65).

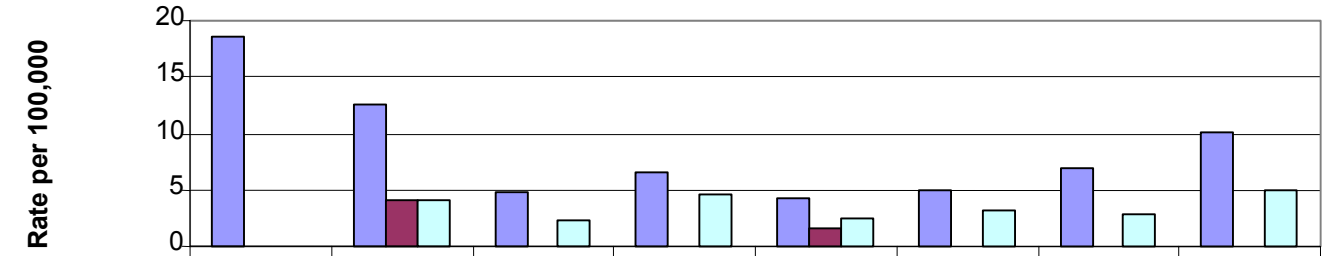
Transportation Related Injury Rates by Age and Mechanism



	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75+
MV Occupant	16.63	23.27	19.55	102.56	113.52	69.12	48.53	49.61	45.30	53.60	65.79
Motorcycle	*	2.69	4.89	16.06	18.32	17.00	11.23	10.03	9.33	2.85	*
Pedalcycle	3.84	20.59	21.51	11.91	4.92	7.93	6.36	8.36	4.89	*	3.13
Pedestrian	17.48	18.35	10.75	10.36	13.41	8.84	11.02	12.54	11.10	11.40	13.16
Other Vehicle	*	*	*	*	2.68	4.53	2.12	*	4.00	*	*

*Rates not calculated on fewer than five incidents.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00; Population estimates, SANDAG.

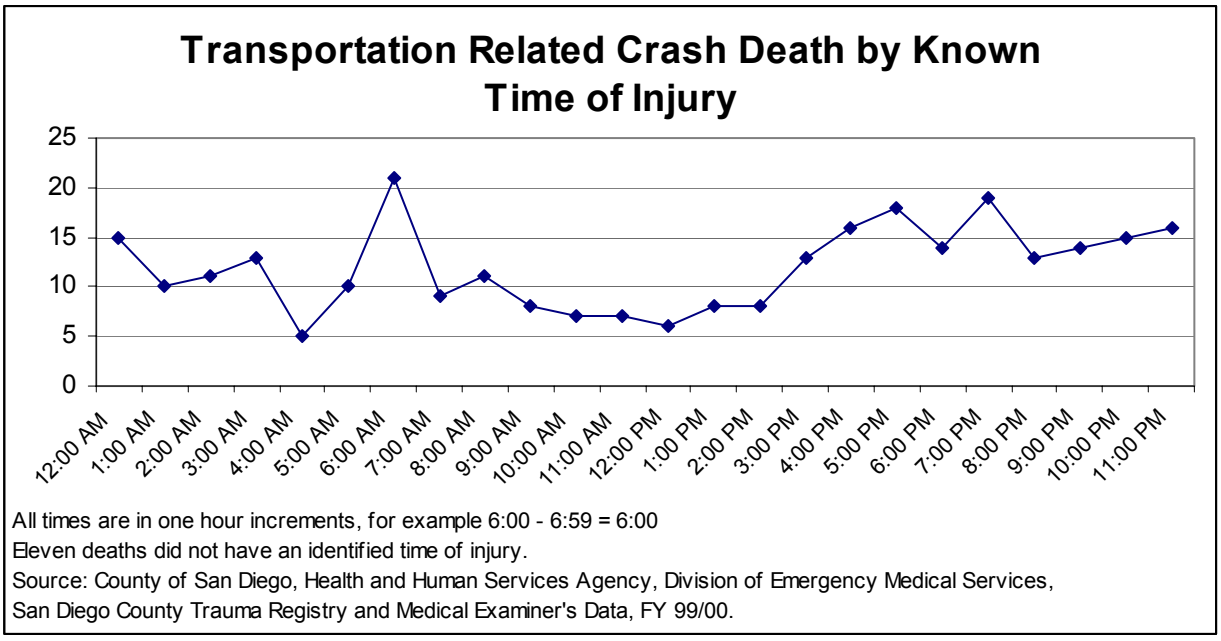
Transportation Related Death Rates by Age and Mechanism



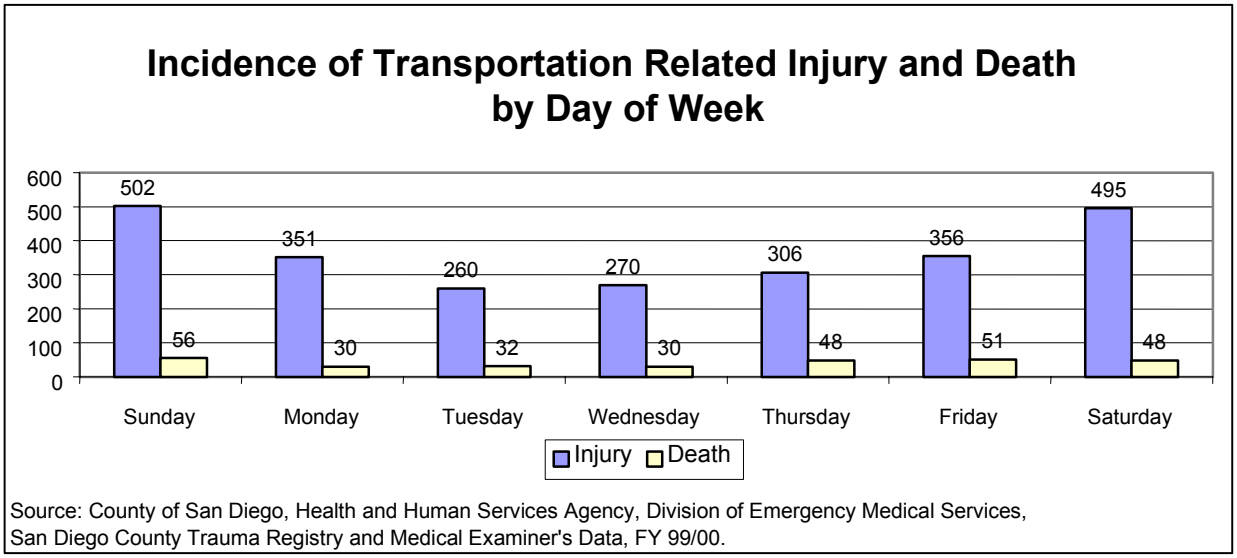
	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75+
MV Occupant	18.65	12.51	4.76	6.57	4.18	4.89	6.84	10.02
Motorcycle	*	4.02	*	*	1.67	*	*	*
Pedestrian	*	4.02	2.27	4.66	2.51	3.11	2.85	5.01

*Rates not calculated on fewer than five incidents.
Incidence was less than five for age groups under 15 years for all mechanisms and for all age groups for pedalcycle and other vehicle deaths
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00; Population estimates, SANDAG.

Although transportation-related deaths were most likely to occur during the evening hours, the peak hour during FY 99/00 was between 6:00 and 6:59 a.m. Thirty nine percent of crashes resulting in injury or death happened on Saturdays and Sundays.

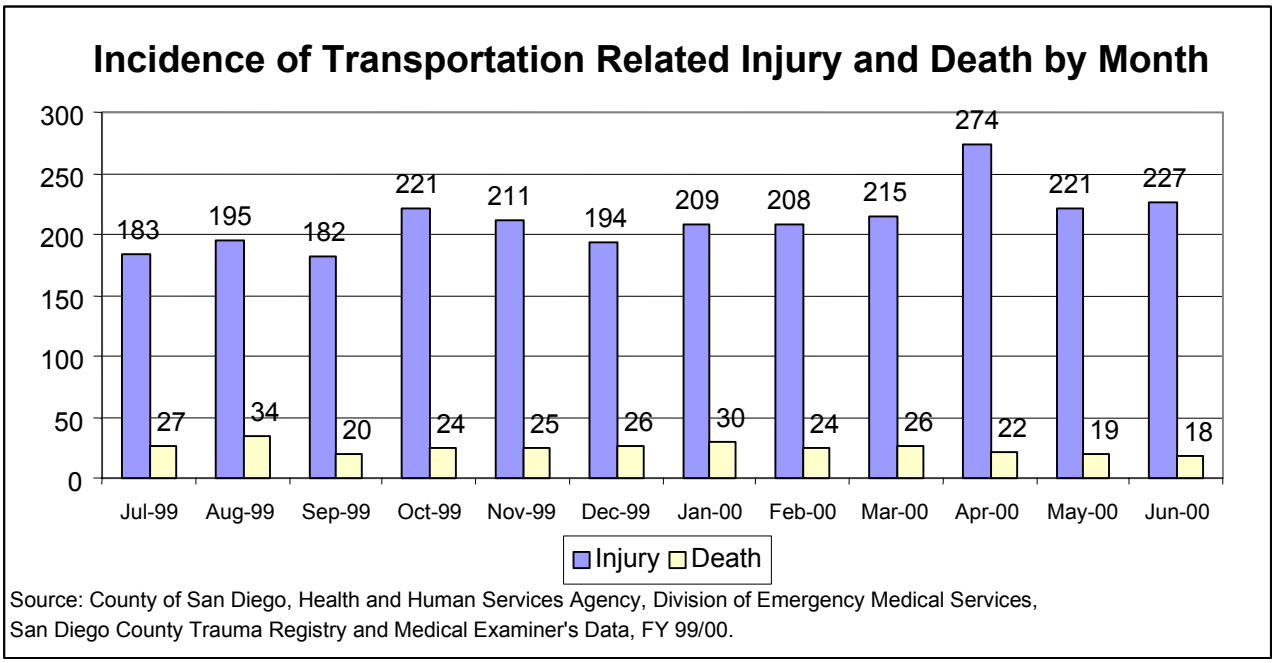


All times are in one hour increments, for example 6:00 - 6:59 = 6:00
Eleven deaths did not have an identified time of injury.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

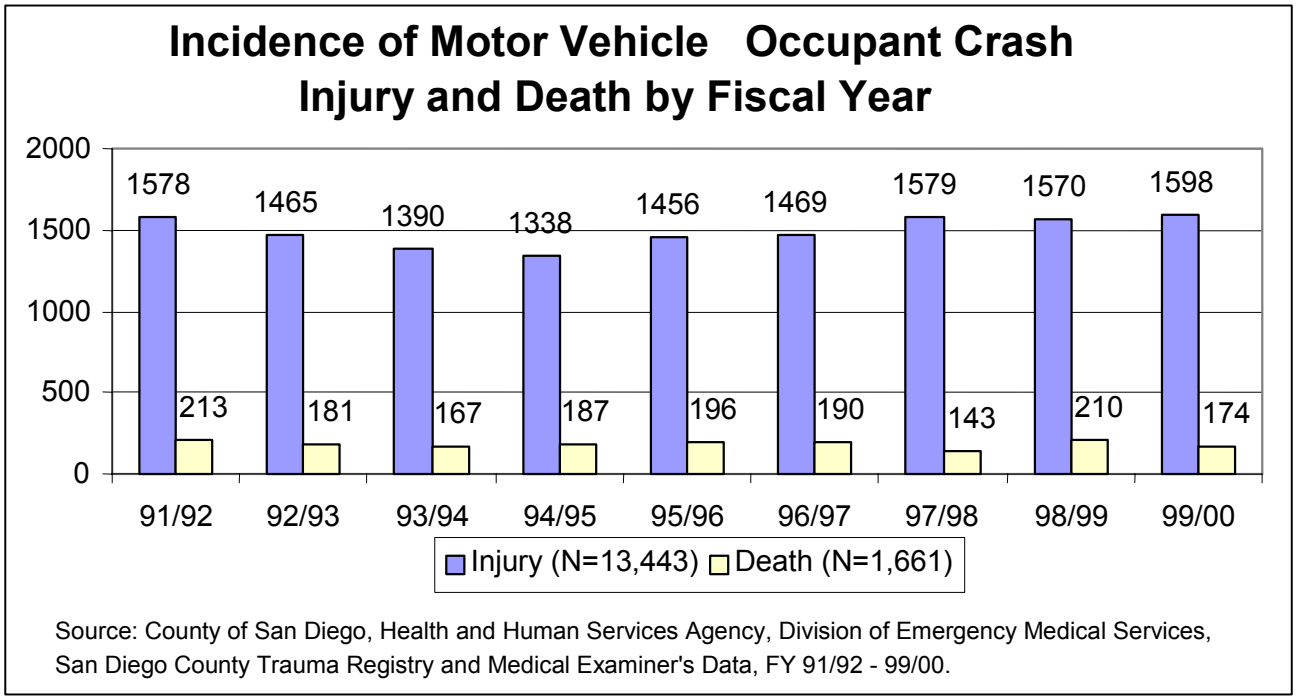
April was the peak month for transportation related injuries, while August had the highest number of deaths.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

Motor Vehicle Occupant Crash Injuries

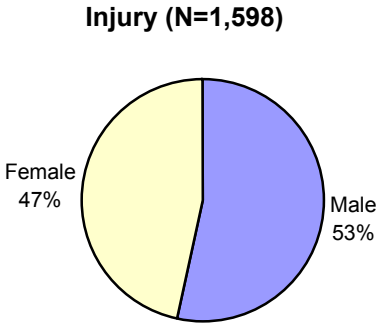
The number of motor vehicle occupant crash injuries increased 1.8% from FY 98/99 to 99/00, while deaths decreased by 17%. Neither of these changes was statistically significant.

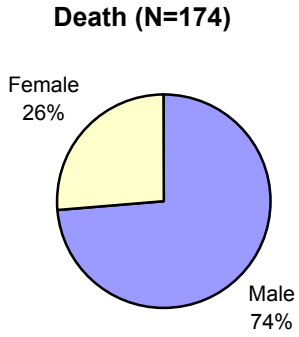


Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 91/92 - 99/00.

Males accounted for 53% of injuries and 74% of deaths to motor vehicle occupants. Injury rates for both males and females were highest in the 20 to 24 year age group (114.45 and 112.32, respectively), and the death rate was highest among 15-19 year olds (18.65).

Incidence of Motor Vehicle Occupant Crash Injury and Death by Gender





Source: County of San Diego, Health and Human Services Agency, Division of emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

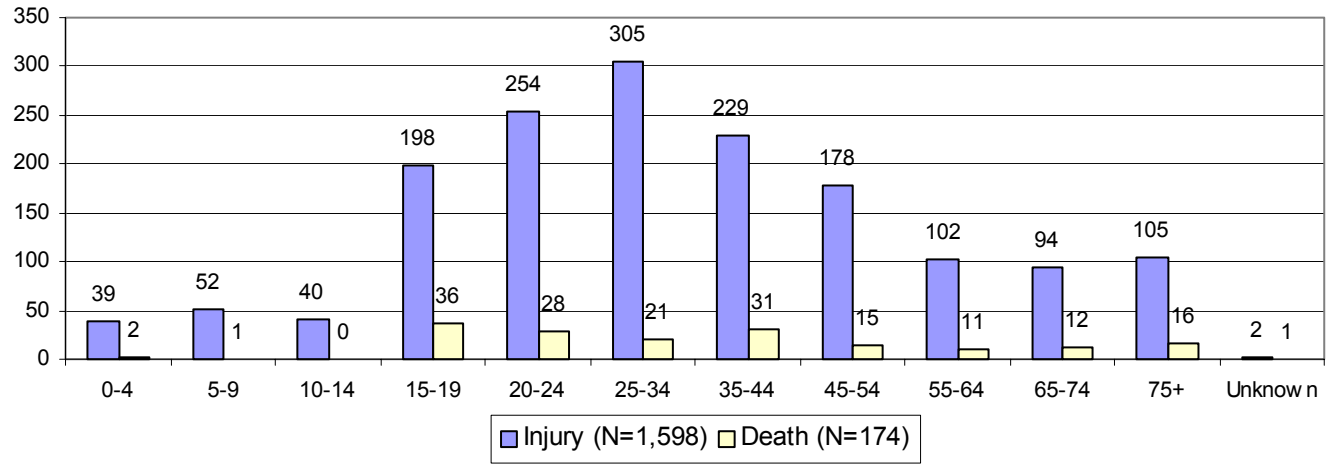
Incidence and Rate of Motor Vehicle Occupant Crash Injury and Death by Age Group and Gender

	Injury						Death						Overall Total	
	Male		Female		Total		Male		Female		Total			
	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate
0-4	21	17.72	18	15.51	39	16.63	1	*	1	*	2	*	41	17.48
5-9	33	28.54	19	17.62	52	23.27	0	*	1	*	1	*	53	23.72
10-14	15	14.27	25	25.14	40	19.55	0	*	0	*	0	-	40	19.55
15-19	106	107.67	92	97.24	198	102.56	23	23.36	13	13.74	36	18.65	234	121.21
20-24	145	114.45	109	112.32	254	113.52	24	18.94	4	*	28	12.51	282	126.04
25-34	179	75.91	126	61.32	305	69.12	17	7.21	4	*	21	4.76	326	73.88
35-44	119	48.92	110	48.11	229	48.53	24	9.87	7	3.06	31	6.57	260	55.10
45-54	96	52.69	82	46.43	178	49.61	11	6.04	4	*	15	4.18	193	53.79
55-64	50	45.58	52	45.04	102	45.30	9	8.20	2	*	11	4.89	113	50.19
65-74	39	48.59	55	57.82	94	53.60	7	8.72	5	5.26	12	6.84	106	60.44
75+	49	77.86	56	57.93	105	65.79	11	17.48	5	5.17	16	10.02	121	75.81
Unknown	1		1		2		1		0		1		3	
Total	**853**	**57.69**	**745**	**51.99**	**1,598**	**54.89**	**128**	**8.66**	**46**	**3.21**	**174**	**5.98**	**1,772**	**60.86**

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 99/00; Population Estimates, SANDAG

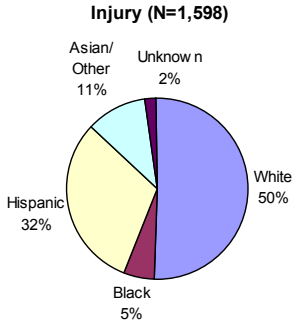
As demonstrated by the chart below, the majority of injuries and deaths due to motor vehicle occupant (MVO) crashes are to younger adults. In fact, MVO crashes were responsible for more years of potential life lost than any other cause of traumatic injury. During FY 99/00, 62% of injuries and 67% of deaths due to MVO crashes occurred to individuals aged 15-44.

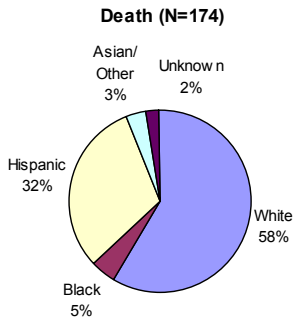
Incidence of Motor Vehicle Occupant Crash Injury and Death by Age Group



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

Incidence of Motor Vehicle Occupant Crash Injury and Death by Race/Ethnicity

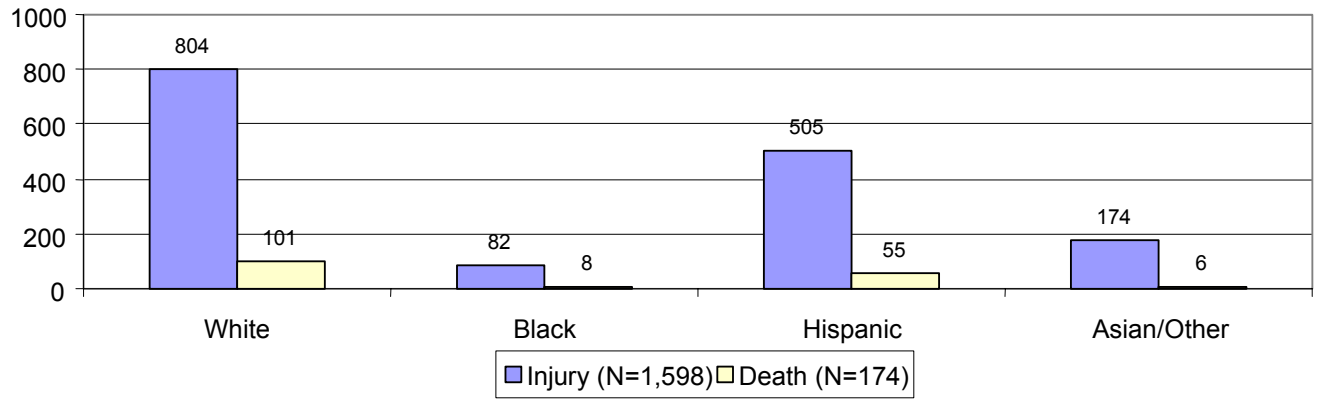




Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

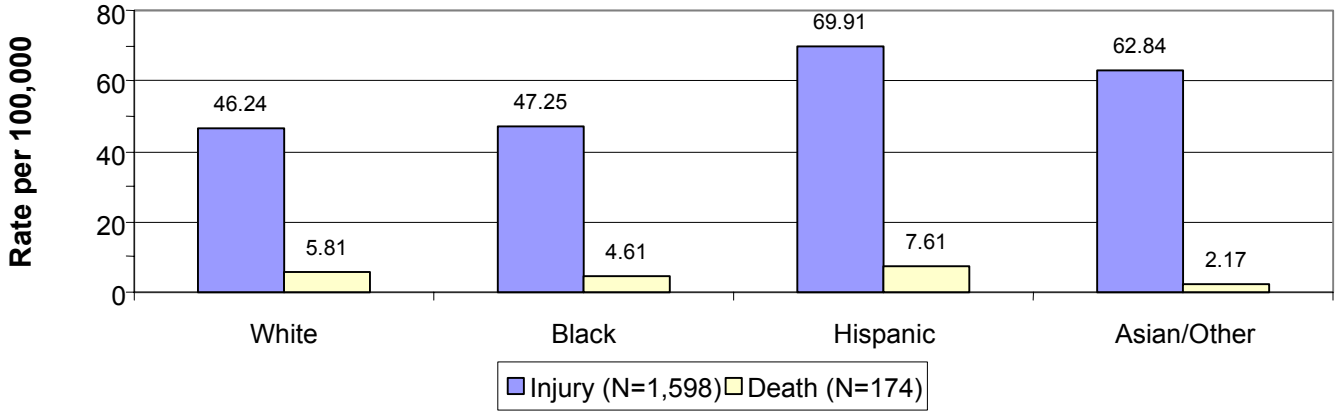
While Whites accounted for the majority of injuries and deaths due to MVO crashes, the highest rates of injury and death were in the Hispanic population.

Incidence of Motor Vehicle Occupant Crash Injury and Death by Race/Ethnicity



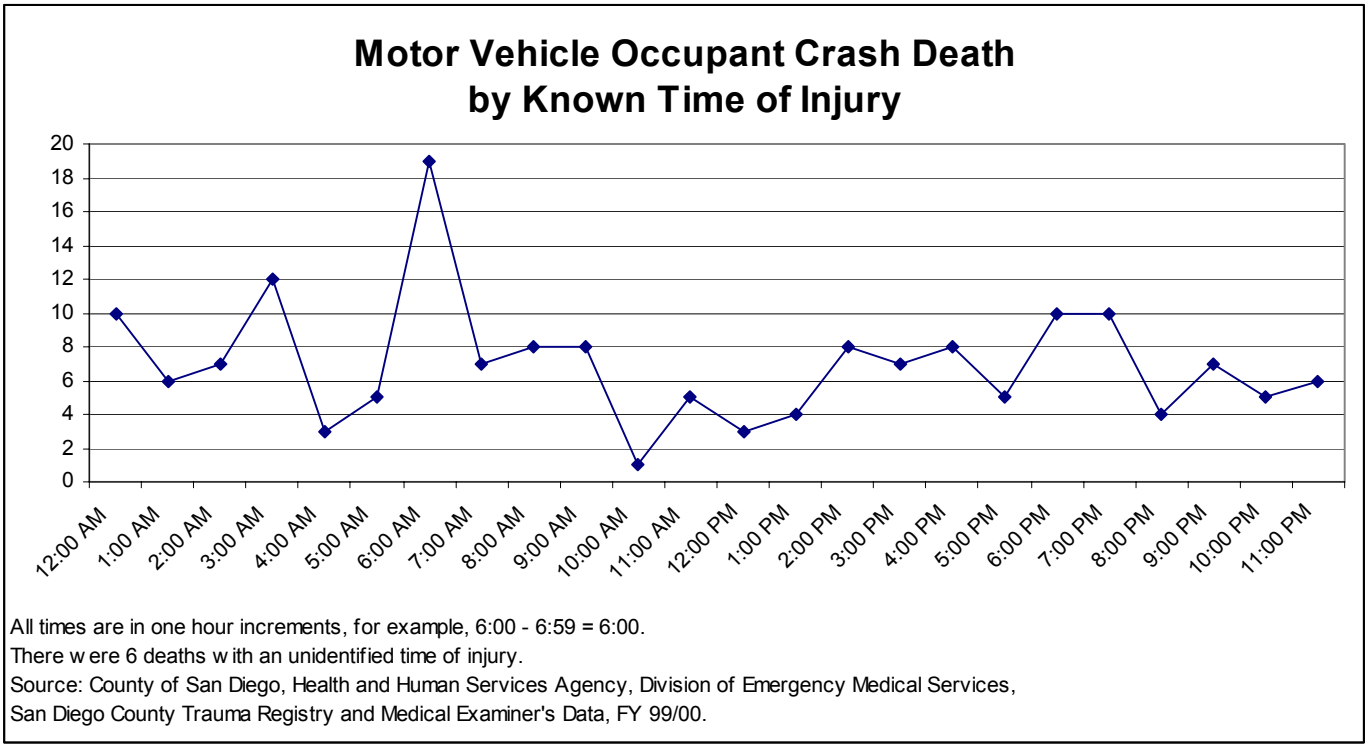
Note: Total includes 33 injuries and 4 deaths with unknown race/ethnicity.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

Rates of Motor Vehicle Occupant Crash Injury and Death by Race/Ethnicity

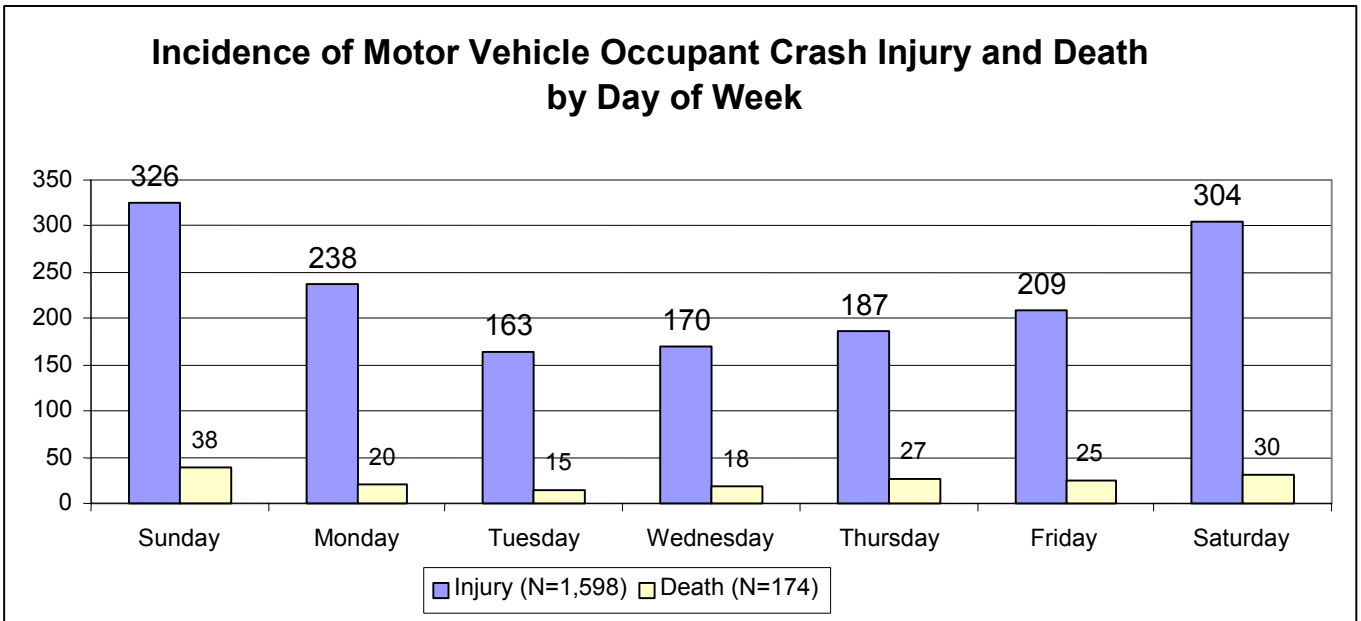


Note: Total includes 33 injuries and 4 deaths with unknown race/ethnicity.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

The peak time for MVO crashes resulting in death was between 6:00 and 6:59 a.m. Thirty nine percent of injuries and 39% of deaths occurred on weekends (Saturday and Sunday). April was the month with the most injuries while July had the fewest. Deaths peaked in August and were lowest in September.

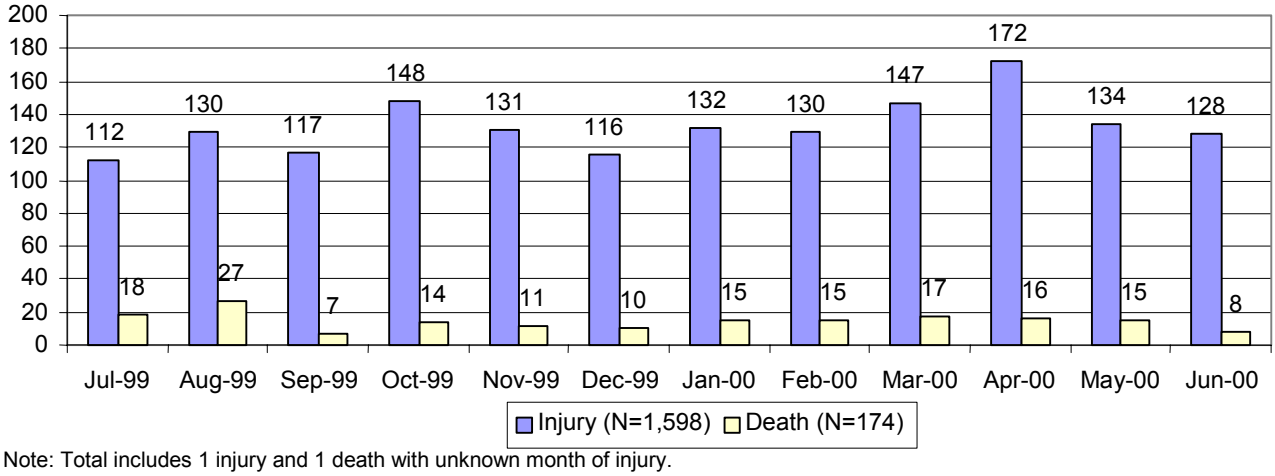


All times are in one hour increments, for example, 6:00 - 6:59 = 6:00.
There w ere 6 deaths w ith an unidentified time of injury.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services,
San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.



Note: Total includes 1 injury and 1 death with unknown day of week.
Source: County of San Diego Health and Human Services Agency, Division of Emergency Medical Services,
San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

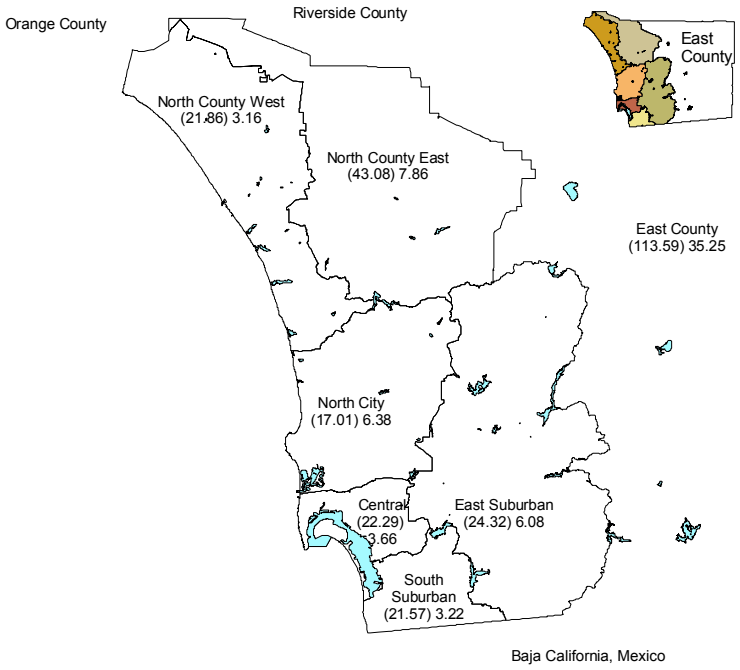
Incidence of Motor Vehicle Occupant Crash Injury and Death by Month



Note: Total includes 1 injury and 1 death with unknown month of injury.
Source: County of San Diego Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

Incidence and rates of injury by subregional areas (SRA) and Major Statistical Areas (MSA) were calculated from the zip code where the incident took place. The incident zip code was available for 48% of non-fatal MVO injuries and for 92% of deaths from MVO crashes. The East County MSA, which comprised less than 1% of the county's population, had 4% of injuries and 6% of deaths. Population estimates for each of the MSAs can be found in Appendix B.

Motor Vehicle Occupant Injury and Death Rates per 100,000 by San Diego Major Statistical Area

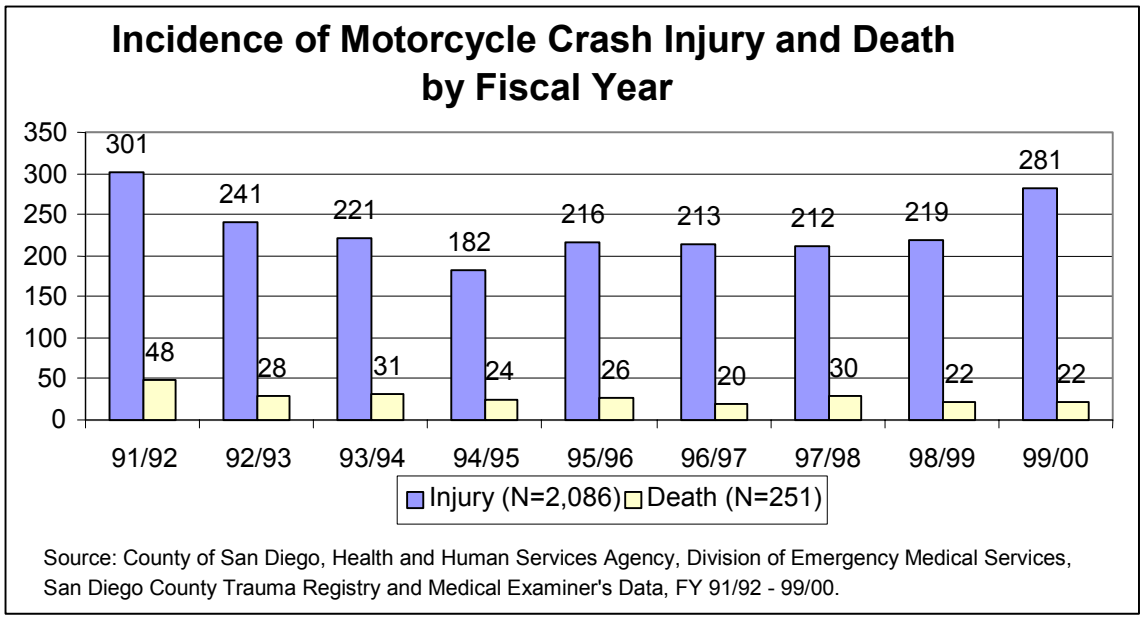


Legend
Rates displayed in parentheses () reflect injuries while those not in parentheses indicate deaths.
*Rates not calculated on fewer than five incidents.
Please note there were 880 injuries and 16 deaths with an unknown incident zip code.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 99/00; Population estimates, San Diego Association of Governments (SANDAG)

Motorcycle Crashes

Motorcycle crash injuries did not account for a large percentage of overall traumatic injury deaths or years potential life lost. On average, for every trauma death due to a motorcycle crash during FY 99/00, there were nearly 13 more severe injuries from such a crash.

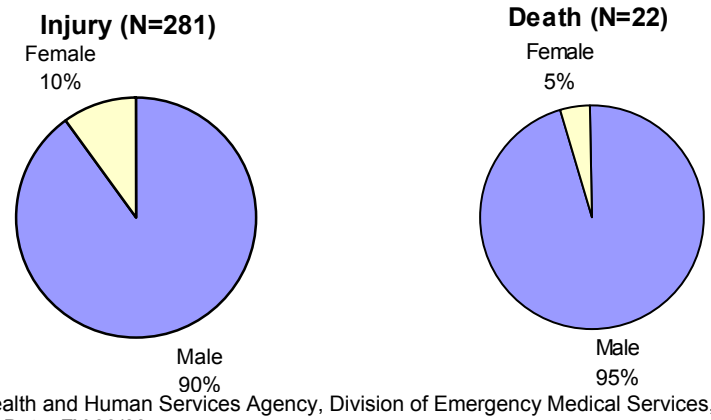
Motorcycle injuries increased a statistically significant ($p<0.05$) 28% from 98/99 to 99/00 to reach their highest level since 91/92. The number of deaths was unchanged from the previous year, however, and remained 54% lower than 91/92, the first year of California's mandatory helmet law. The change in deaths from 91/92 to 99/00 was statistically significant ($p<0.001$).



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 91/92 - 99/00.

As with all motor vehicle related crashes, the overwhelming majority of motorcycle crashes during FY 99/00 occurred among males: 90% of injuries and all but one death (95%). The highest rate of injury and death was in males 20-24 years of age (30.78).

Incidence of Motorcycle Crash Injury and Death by Gender



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

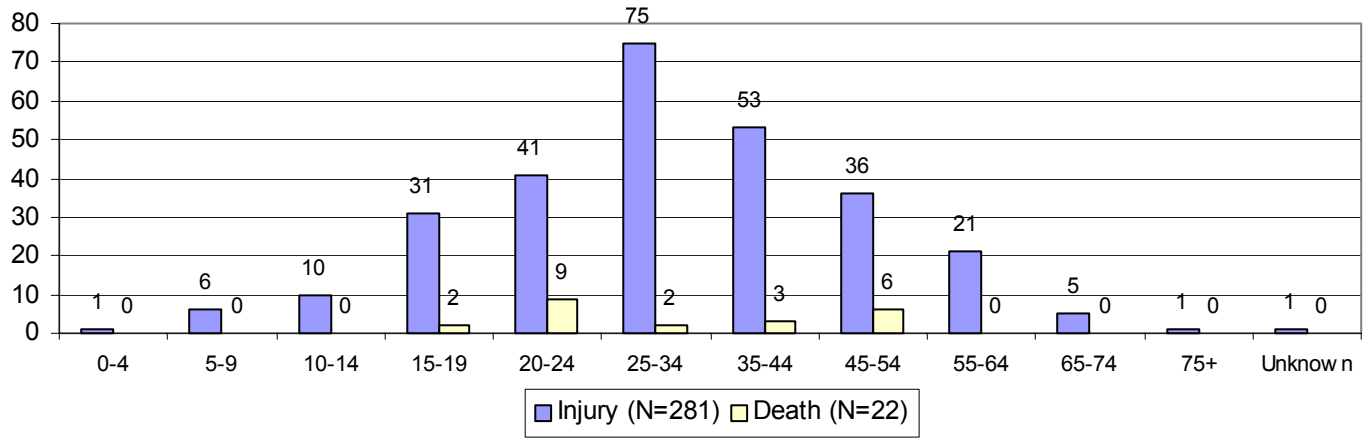
Incidence and Rate of Motorcycle Crash Injury and Death by Age Group and Gender

	Injury						Death						Overall Total	
	Male		Female		Total		Male		Female		Total			
	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate
0-4	1	*	0	-	1	*	0	*	0	*	0	*	1	*
5-9	6	5.19	0	-	6	2.69	0	*	0	*	0	*	6	2.69
10-14	9	8.56	1	*	10	4.89	0	*	0	*	0	-	10	4.89
15-19	28	28.44	3	*	31	16.06	2	*	0	-	2	*	33	17.09
20-24	39	30.78	2	*	41	18.32	9	7.10	0	*	9	4.02	50	22.35
25-34	67	28.41	8	3.89	75	17.00	2	*	0	*	2	*	77	17.45
35-44	47	19.32	6	2.62	53	11.23	2	*	1	*	3	*	56	11.87
45-54	33	18.11	3	*	36	10.03	6	3.29	0	*	6	1.67	42	11.71
55-64	17	15.50	4	*	21	9.33	0	-	0	*	0	-	21	9.33
65-74	4	*	1	*	5	2.85	0	-	0	-	0	-	5	2.85
75+	1	*	0	-	1	*	0	-	0	-	0	-	1	*
Unknown	1		0		1		0		0		0		1	
Total	**253**	**17.11**	**28**	**1.95**	**281**	**9.65**	**21**	**1.42**	**1**	**0.07**	**22**	**0.76**	**303**	**10.41**

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 99/00; Population Estimates, SANDAG

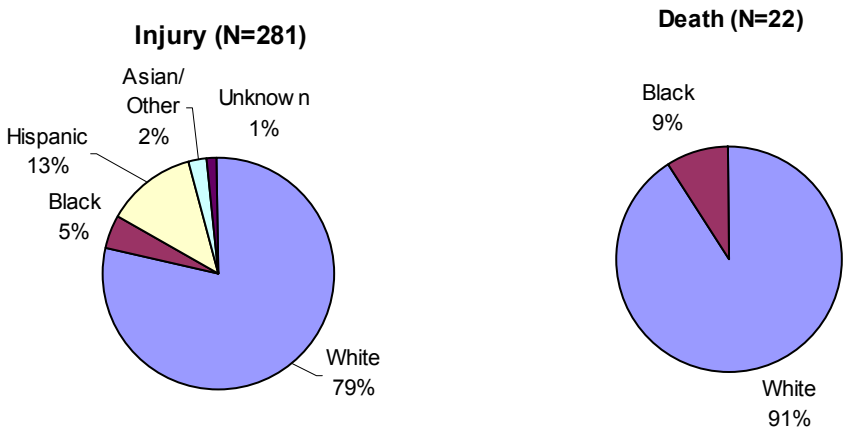
Most motorcycle crash injuries occurred in young persons. Fifty eight percent of motorcycle injuries and deaths were to people younger than 35 years of age.

Incidence of Motorcycle Crash Injury and Death by Age Group



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

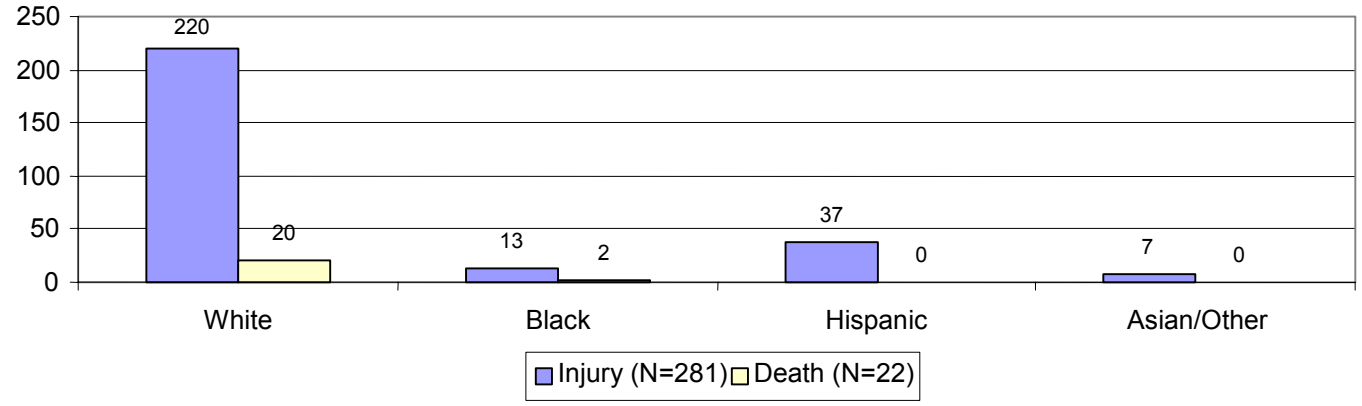
Incidence of Motorcycle Crash Injury and Death by Race/Ethnicity



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

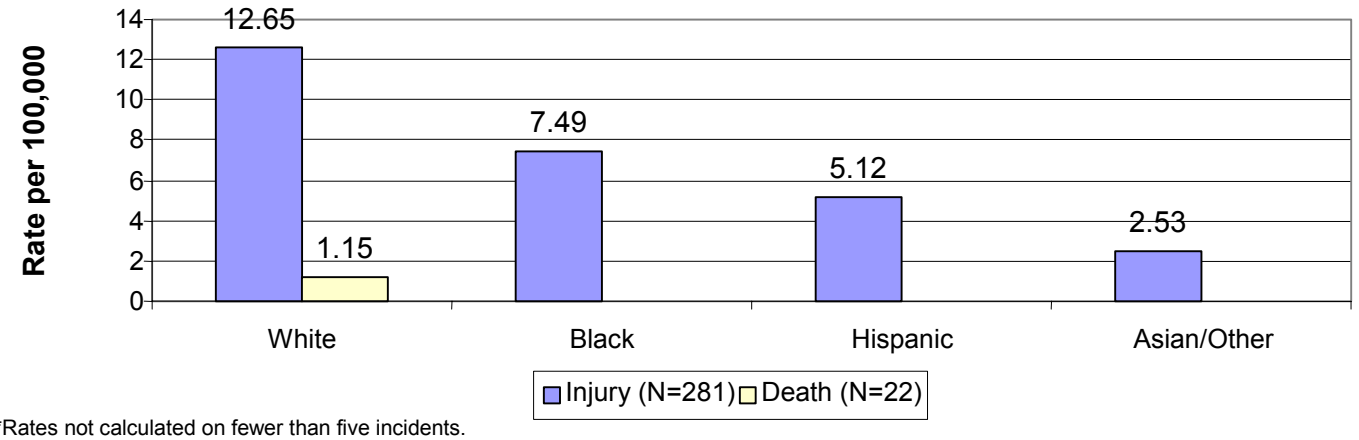
During FY 99/00, the White population had the highest incidence and rate of deaths and severe injuries due to motorcycle crashes. Seventy-nine percent of severe injuries and 91% of deaths occurred in the White population, which makes up about 60% of the total county population.

Incidence of Motorcycle Crash Injury and Death by Race/Ethnicity



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

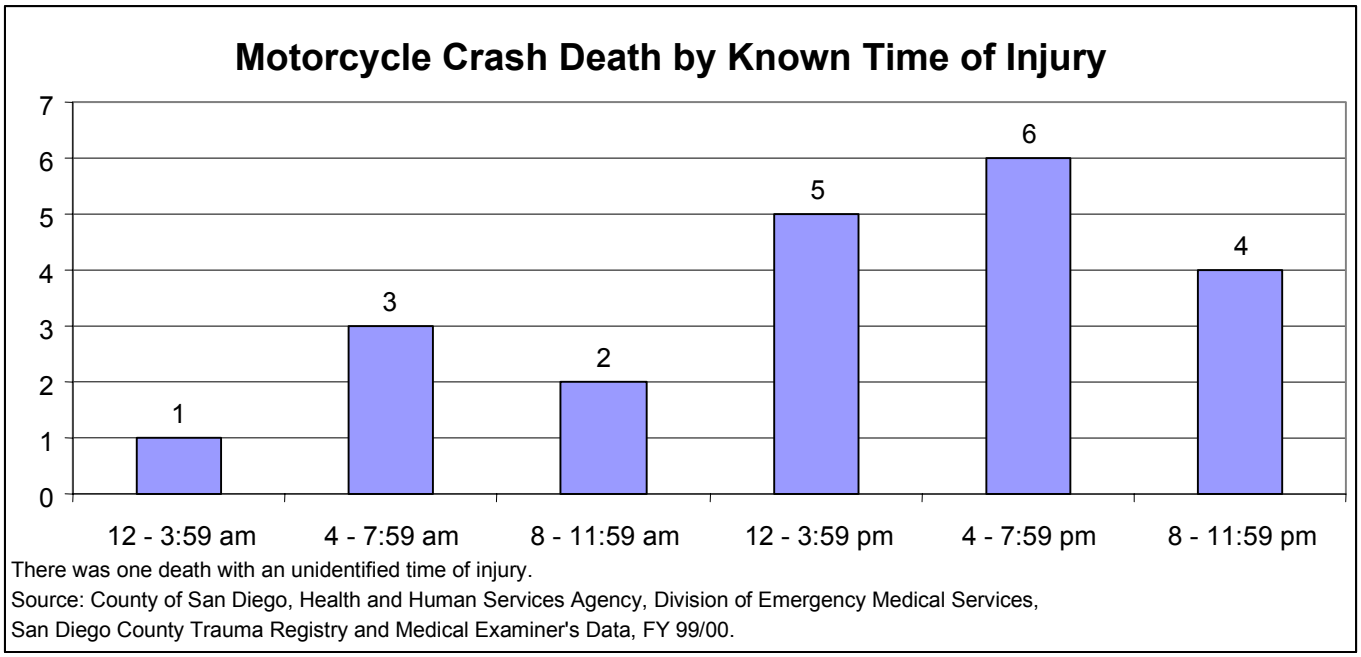
Rates of Motorcycle Crash Injury and Death by Race/Ethnicity



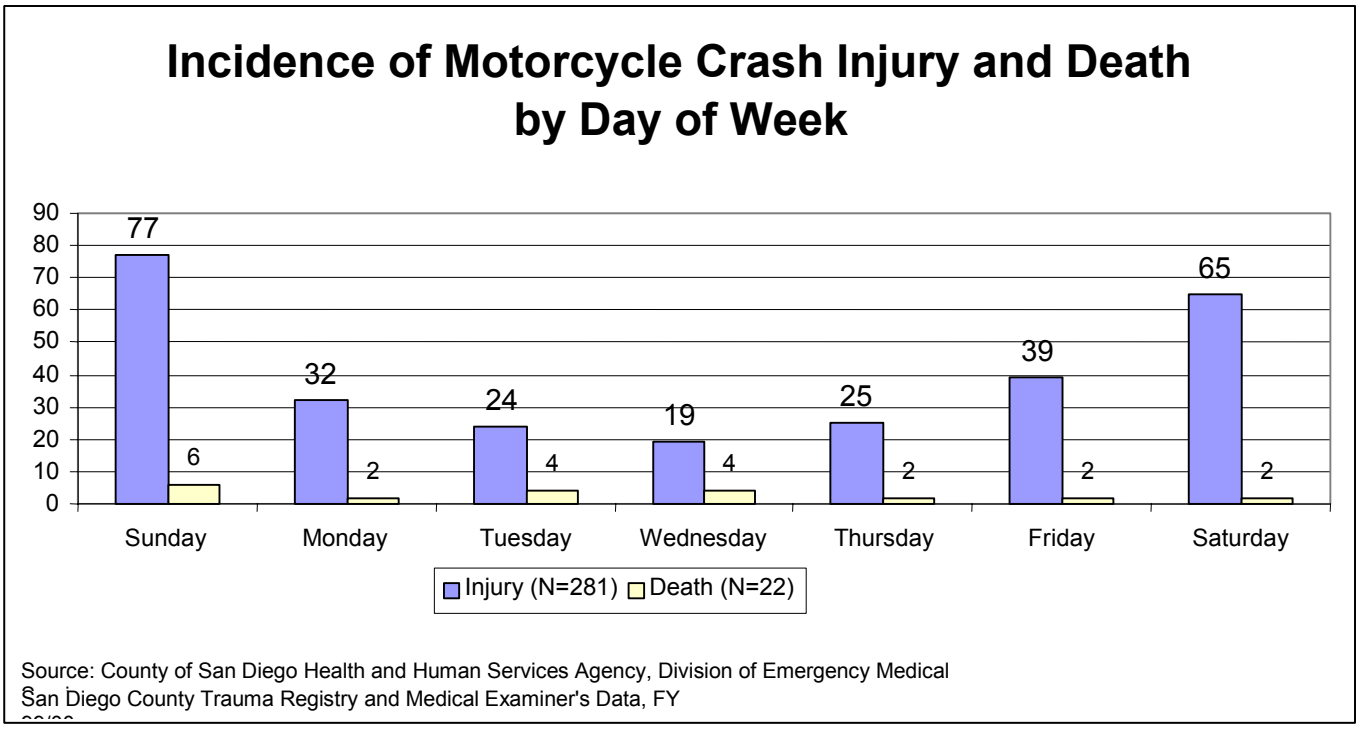
*Rates not calculated on fewer than five incidents.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

Motorcycle crashes resulting in death occurred more frequently during the afternoon and early evening hours. Fifty one percent of injuries and 36% of deaths occurred during weekends. April 2000 stood out as the month with the highest number of motorcycle crash injuries.

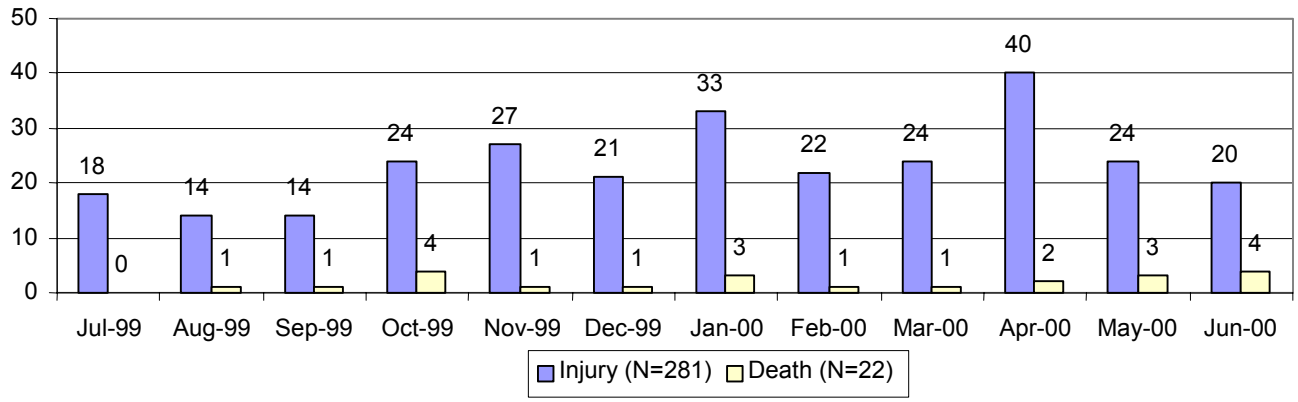


There was one death with an unidentified time of injury.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.



Source: County of San Diego Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

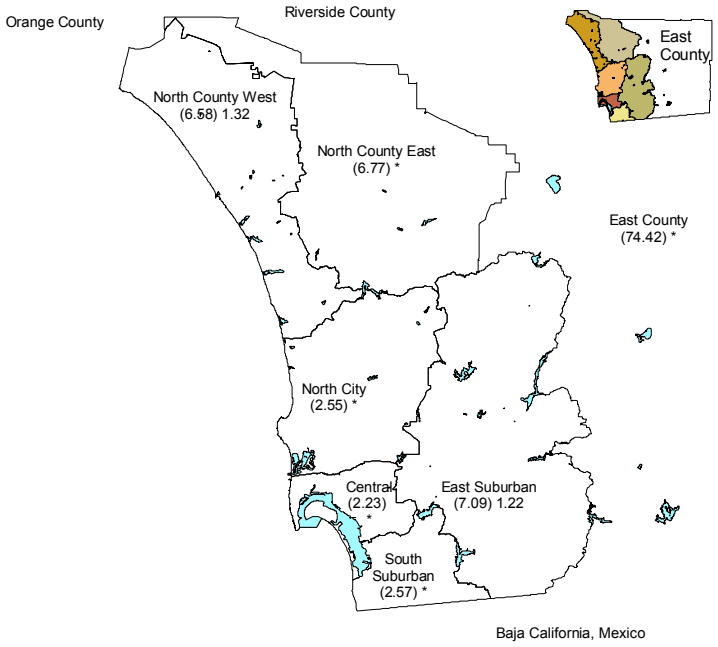
Incidence of Motorcycle Crash Injury and Death by Month



Source: County of San Diego Health and Human Services Agency, Division of Emergency Medical Services,
San Diego County Trauma Registry and Medical Examiner's Data, FY

Incidence and rates of injury by subregional areas (SRA) and Major Statistical Areas (MSA) were calculated from the zip code where the incident took place. The incident zip code was available for 51% of non-fatal motorcycle injuries and for 95% of deaths from motorcycle crashes. The rate of injury due to motorcycle crashes in the East County MSA was more than seven times higher than the overall county rate. Population estimates for each of the MSAs can be found in Appendix B.

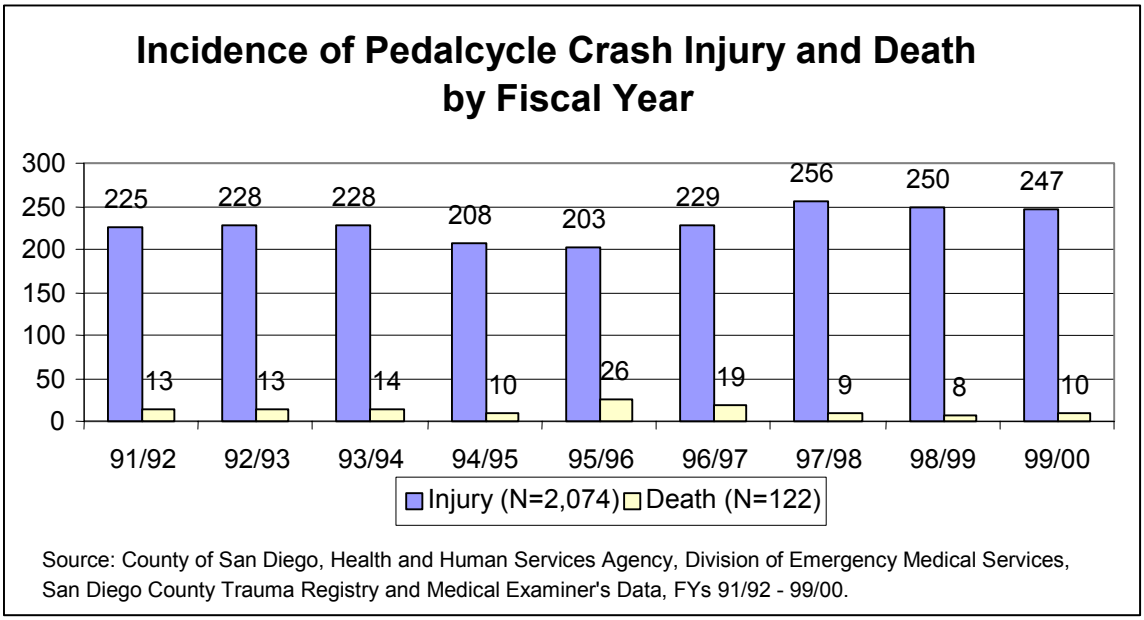
Motorcycle Injury and Death Rates per 100,000 by San Diego Major Statistical Area



Legend
Rates displayed in parentheses () reflect injuries while those not in parentheses indicate deaths.
*Rates not calculated on fewer than five incidents.
Please note there were 137 injuries and 1 death with an unknown incident zip code.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 99/00; Population estimates, San Diego Association of Governments (SANDAG)

Pedalcycle Crashes

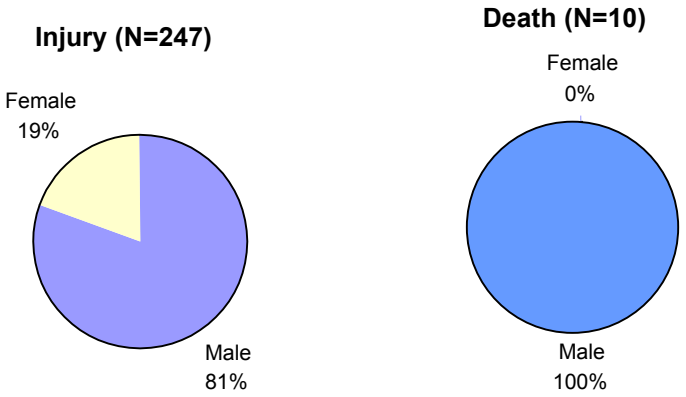
Pedalcyclists were much more likely to sustain a severe rather than a fatal injury during a pedalcycle crash. In FY 99/00, there were ten deaths due to pedalcycle crashes. On average, for every death resulting from a pedalcycle crash, there were 24 more severe injuries. The number of pedalcycle crash injuries decreased 1.2% and the number of deaths increased 25% from the previous fiscal year. Neither of these changes was statistically significant.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FYs 91/92 - 99/00.

During FY 99/00, every death from a pedalcycle crash and 81% of injuries were to males. The highest rate of injury was in boys 10-14 years of age (35.20).

Incidence of Pedalcycle Crash Injury and Death by Gender



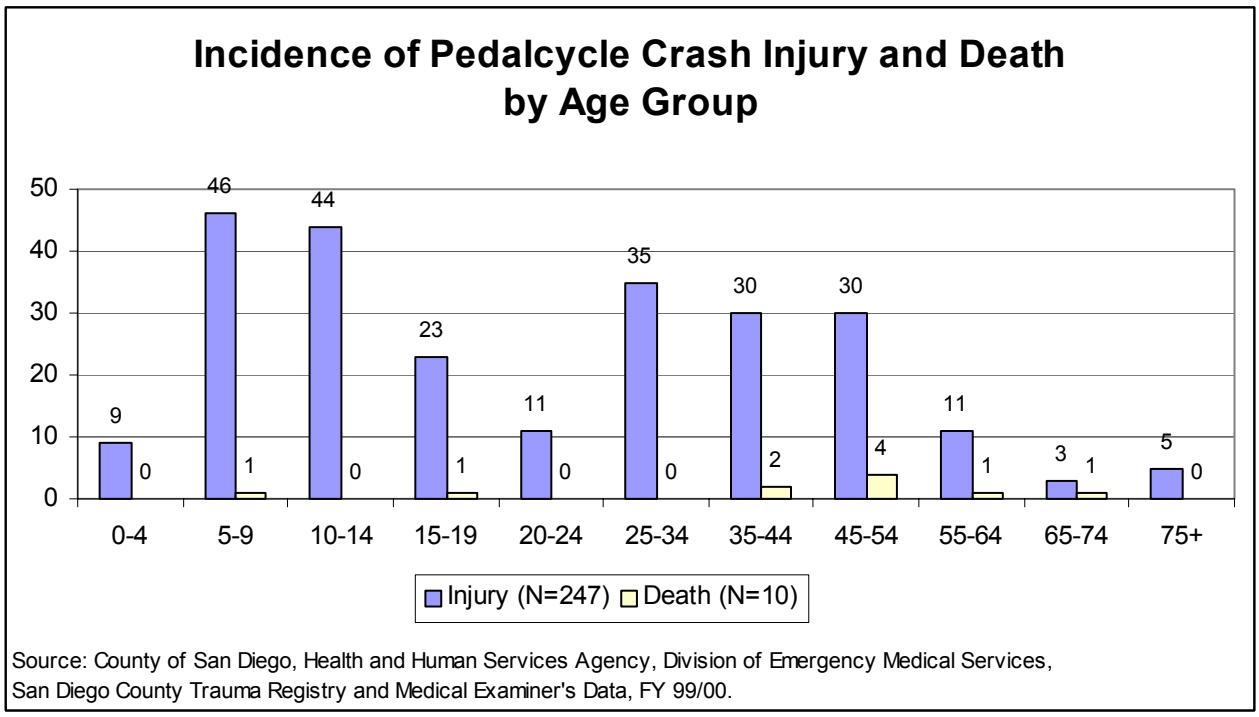
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

Incidence and Rate of Pedalcycle Crash Injury and Death by Age Group and Gender

	Injury						Death						Overall Total	
	Male		Female		Total		Male		Female		Total			
	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate
0-4	7	5.91	2	*	9	3.84	0	*	0	*	0	*	9	3.84
5-9	34	29.41	12	11.13	46	20.59	1	*	0	*	1	*	47	21.03
10-14	37	35.20	7	7.04	44	21.51	0	*	0	*	0	*	44	21.51
15-19	20	20.32	3	*	23	11.91	1	*	0	*	1	*	24	12.43
20-24	9	7.10	2	*	11	4.92	0	*	0	*	0	*	11	4.92
25-34	26	11.03	9	4.38	35	7.93	0	*	0	*	0	*	35	7.93
35-44	25	10.28	5	2.19	30	6.36	2	*	0	*	2	*	32	6.78
45-54	24	13.17	6	3.40	30	8.36	4	*	0	*	4	*	34	9.48
55-64	10	9.12	1	*	11	4.89	1	*	0	*	1	*	12	5.33
65-74	3	*	0	*	3	*	1	*	0	*	1	*	4	*
75+	4	*	1	*	5	3.13	0	*	0	*	0	*	5	3.13
Total	**199**	**13.46**	**48**	**3.35**	**247**	**8.48**	**10**	**0.68**	**0**	*	**10**	**0.34**	**257**	**8.83**

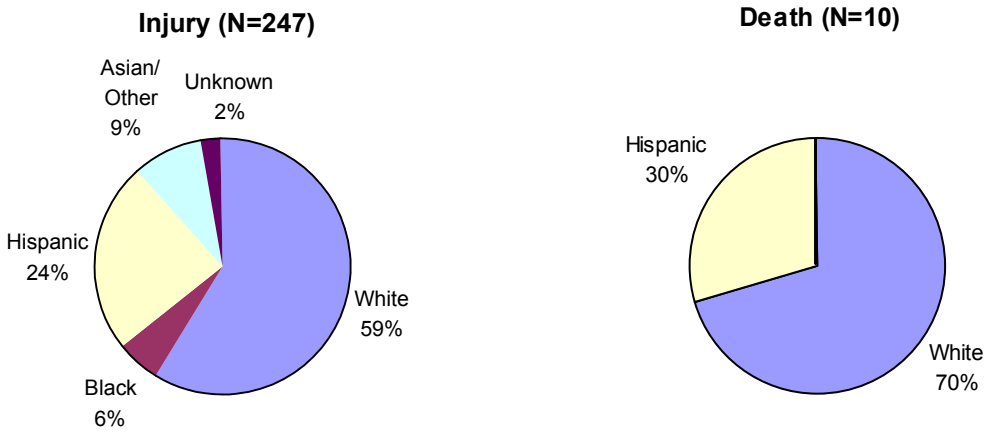
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 99/00; Population Estimates, SANDAG

Pedalcycle crashes occurred primarily in young persons. Forty percent of severe injuries were to individuals younger than 15 years of age. Eight of the ten who died, in contrast, were at least 35 years old.

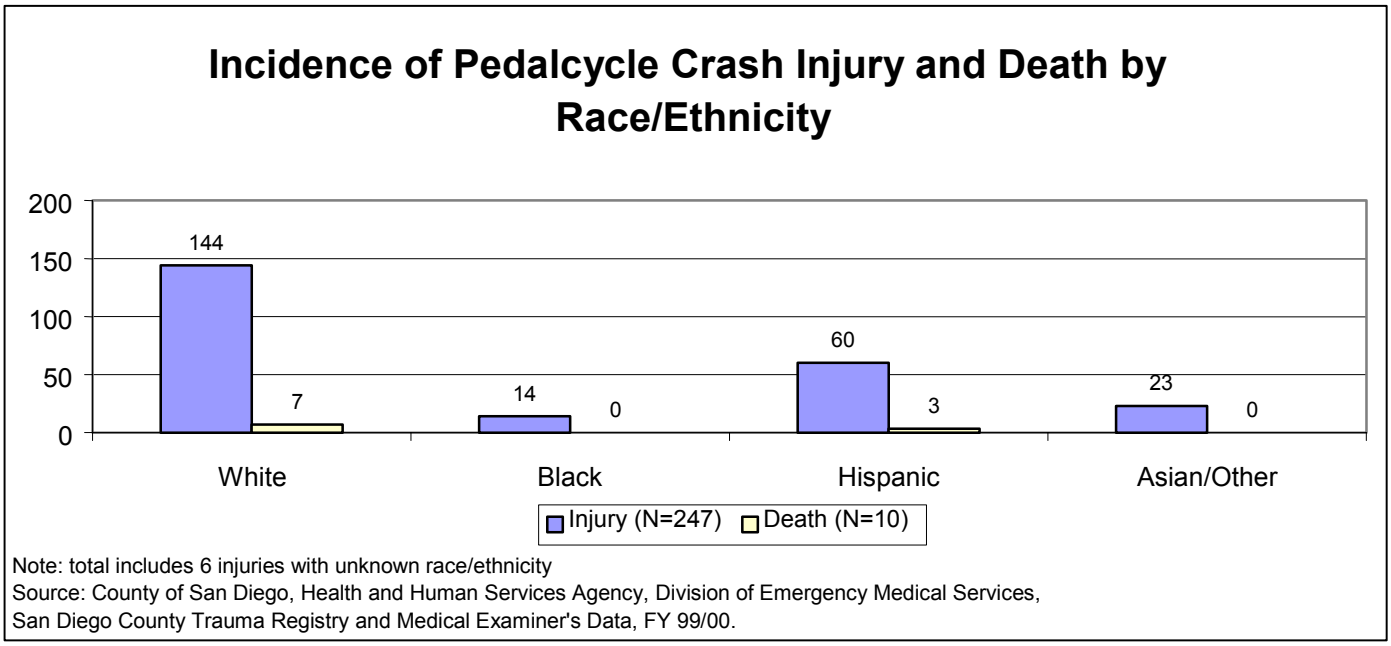


Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

Incidence of Pedalcycle Crash Injury and Death by Race/Ethnicity

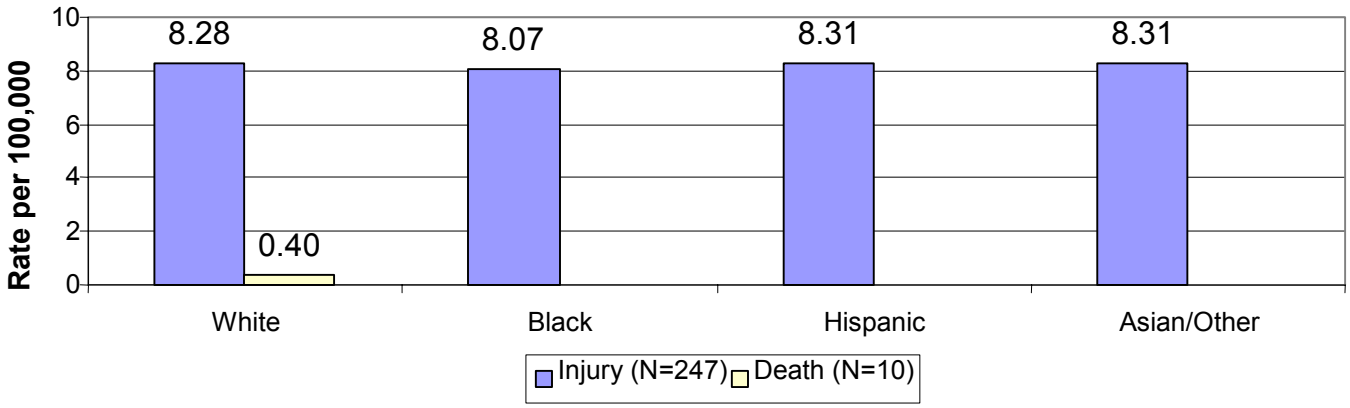


Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.



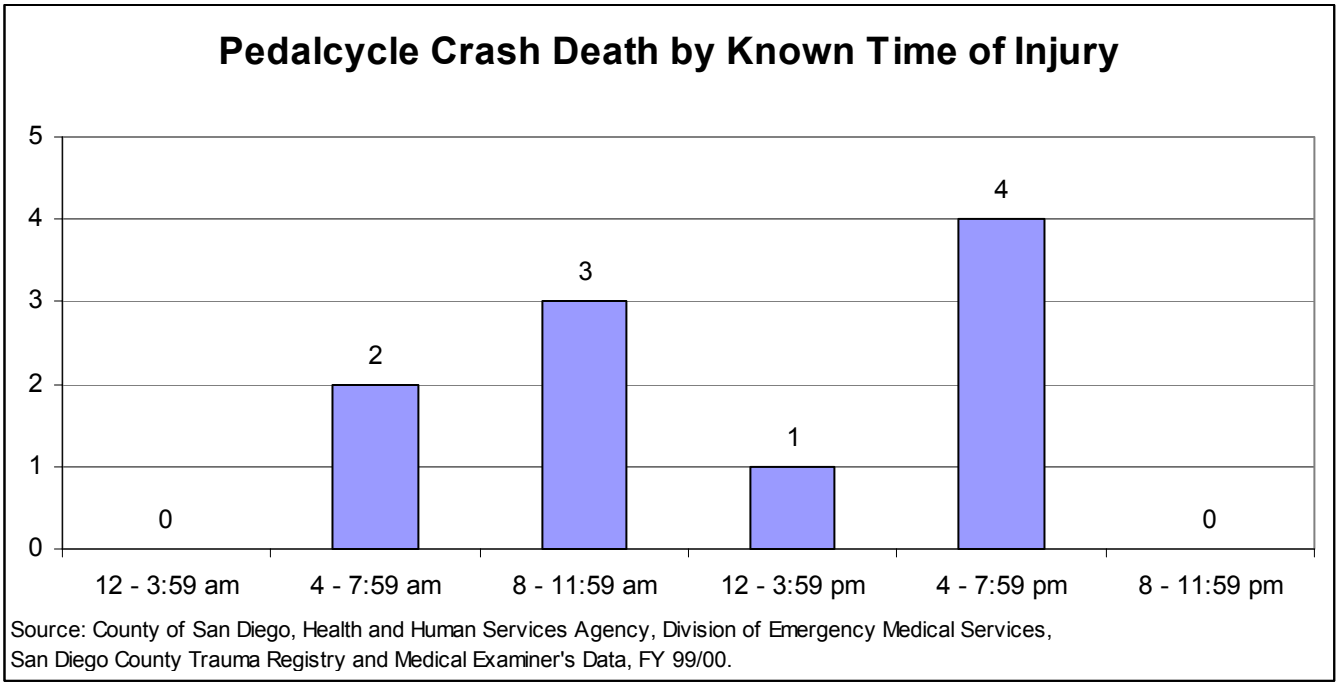
Note: total includes 6 injuries with unknown race/ethnicity
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

The racial distribution of severe injuries resulting from pedalcycle crashes was in nearly direct proportion to the racial/ethnic composition of the county as a whole, as demonstrated by the fact that the injury rate is virtually identical for every racial group.

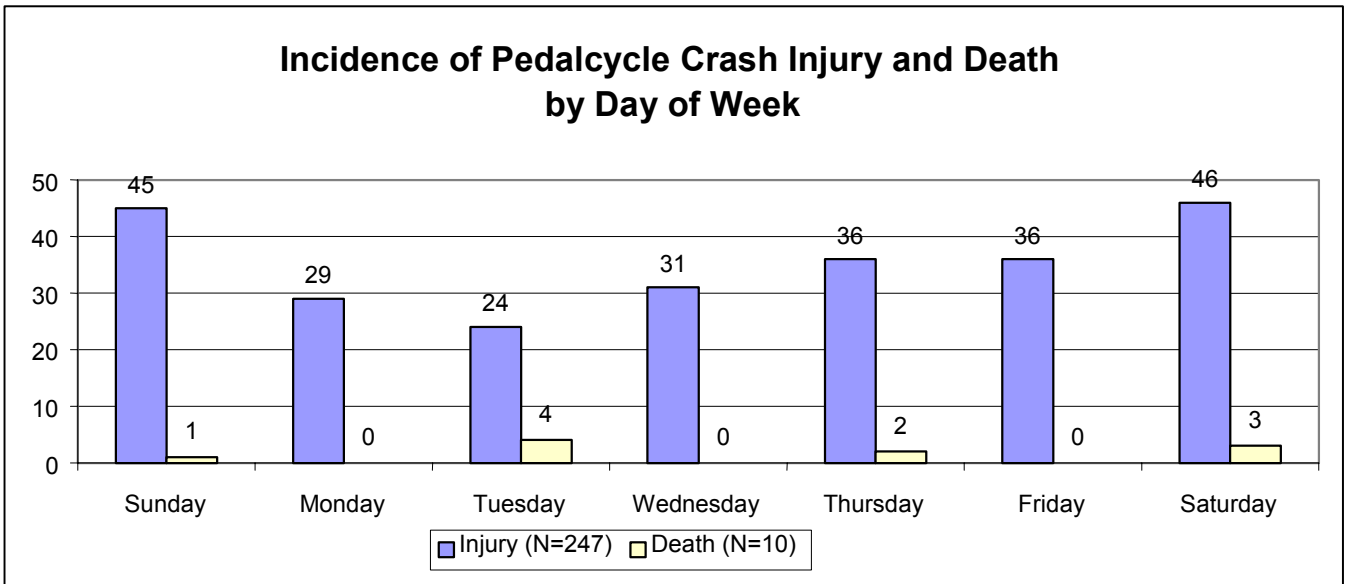


*Rates not calculated on fewer than five incidents.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

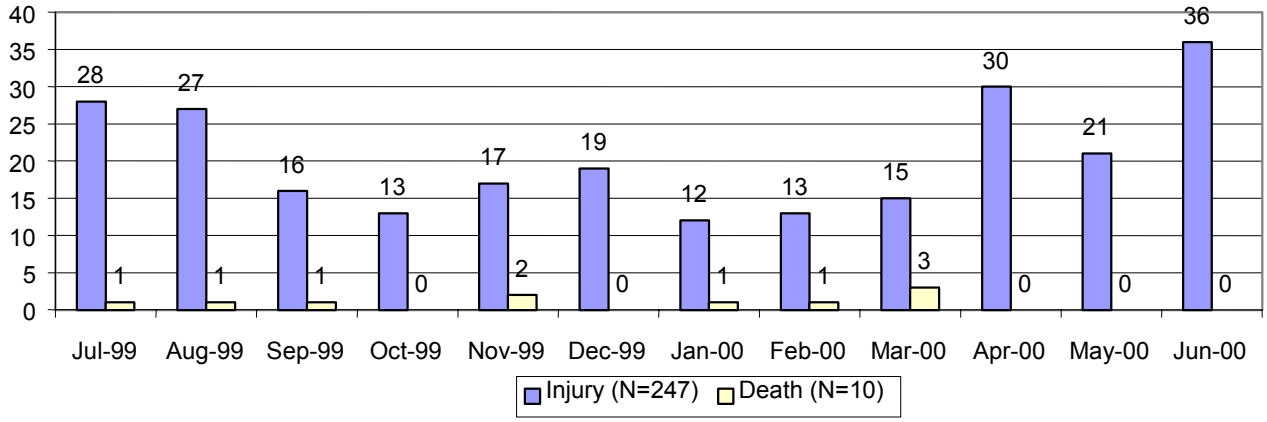
The highest number of deaths resulting from pedalcycle crashes occurred in the early evening hours, and 37% of severe injuries happened during weekends. The months with the greatest number of pedalcycle crash injuries were April and June.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.



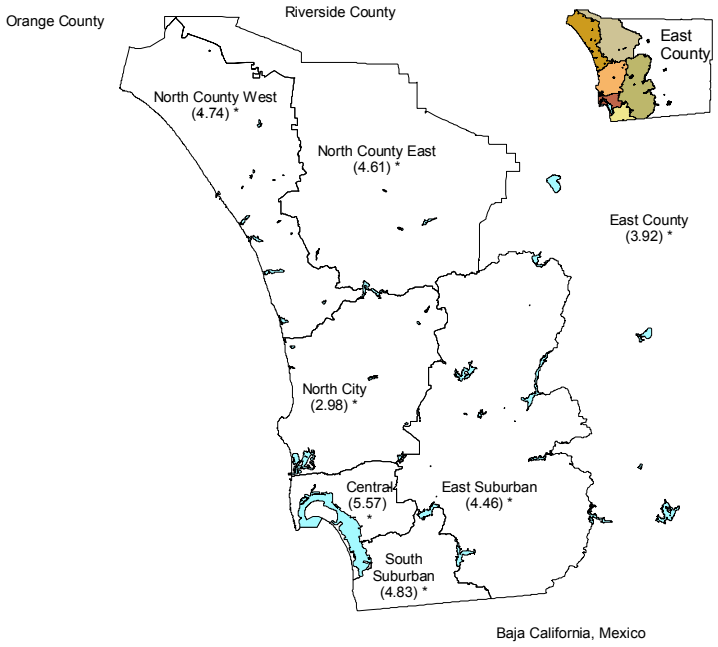
Source: County of San Diego Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.



Source: County of San Diego Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

Incidence and rates of injury by subregional areas (SRA) and Major Statistical Areas (MSA) were calculated from the zip code where the incident took place. The incident zip code was available for 52% of non-fatal pedalcycle injuries and for 80% of deaths from pedalcycle crashes. The Central MSA had the highest rate of pedalcycle injury. Numbers of deaths were too low to calculate rates for any MSA. Population estimates for each of the MSAs can be found in Appendix B.

Pedalcycle Injury and Death Rates per 100,000 by San Diego Major Statistical Area

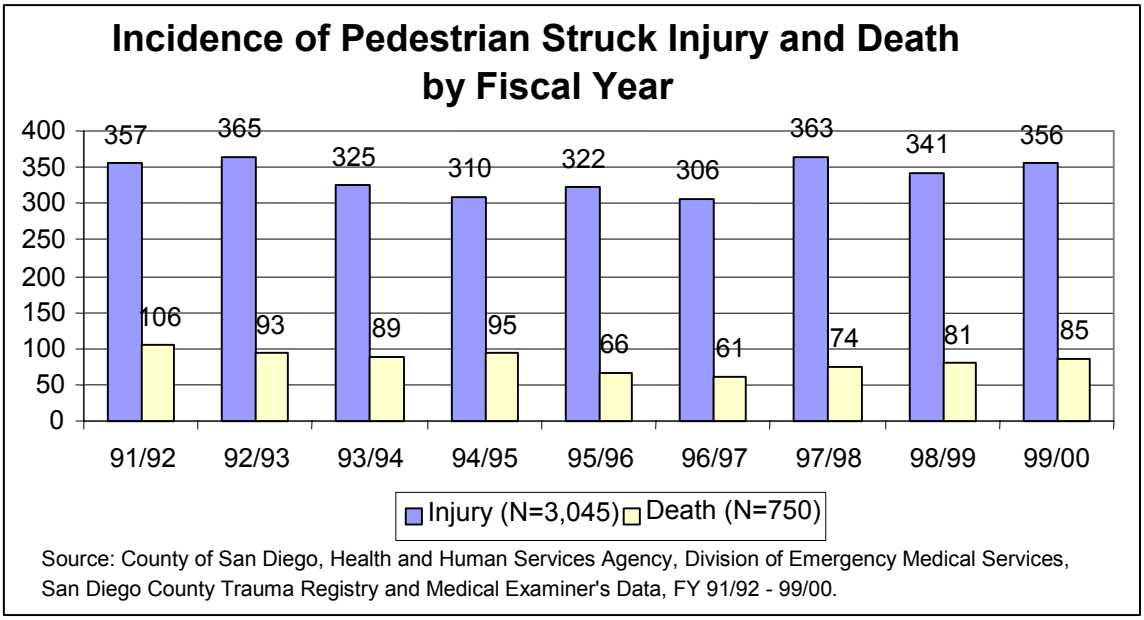


Legend
Rates displayed in parentheses () reflect injuries while those not in parentheses indicate deaths.
*Rates not calculated on fewer than five incidents.
Please note there were 118 injuries and 2 deaths with an unknown incident zip code.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 99/00; Population estimates, San Diego Association of Governments (SANDAG)

Pedestrians

Pedestrian injuries accounted for nearly 11% of trauma deaths and 13% of years of potential life lost due to trauma for FY 99/00. For every death resulting from a pedestrian being struck by a motor vehicle, four others were severely injured.

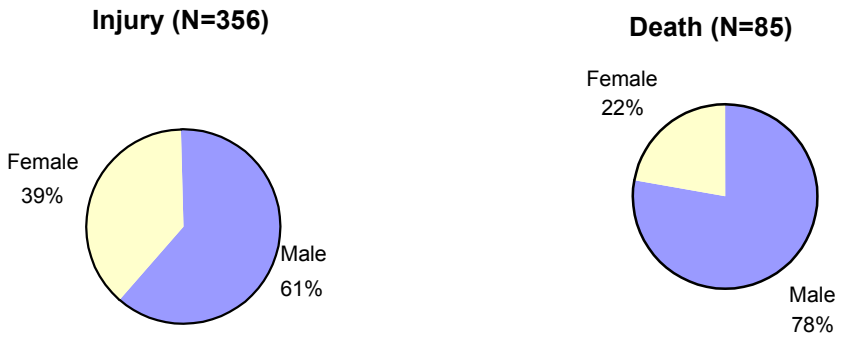
The number of injuries increased 4%, and deaths increased 5% from FY 98/99 to 99/00. Neither of these changes was statistically significant.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 91/92 - 99/00.

As with other transportation related injuries, males had a higher rate of death and severe injury as pedestrians compared to females for all age groups. Males accounted for 61% of severe injuries and 78% of deaths.

Incidence of Pedestrian Struck Injury and Death by Gender



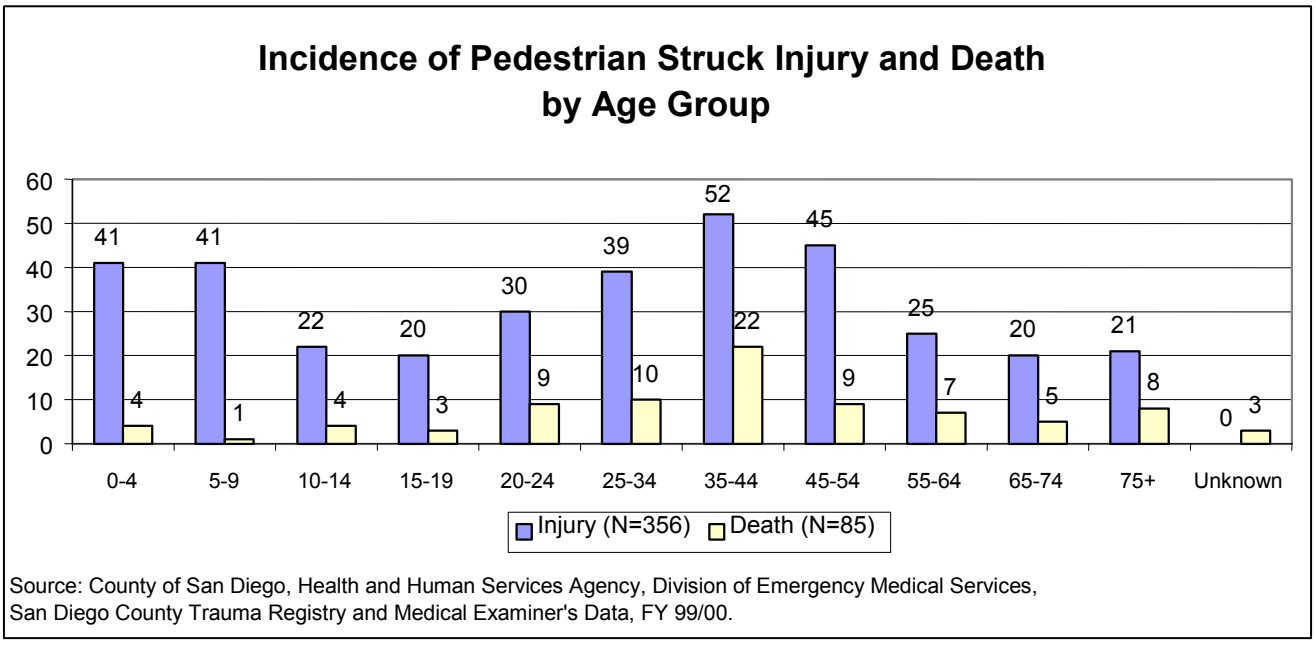
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

Incidence and Rate of Pedestrian Crash Injury and Death by Age Group and Gender

	Injury						Death						Overall Total	
	Male		Female		Total		Male		Female		Total			
	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate
0-4	27	22.78	14	12.07	41	17.48	3	*	1	*	4	*	45	19.19
5-9	30	25.95	11	10.20	41	18.35	0	*	1	*	1	*	42	18.80
10-14	14	13.32	8	8.04	22	10.75	1	*	3	*	4	*	26	12.71
15-19	15	15.24	5	5.28	20	10.36	3	*	0	*	3	*	23	11.91
20-24	19	15.00	11	11.33	30	13.41	8	6.31	1	*	9	4.02	39	17.43
25-34	21	8.91	18	8.76	39	8.84	9	3.82	1	*	10	2.27	49	11.10
35-44	29	11.92	23	10.06	52	11.02	18	7.40	4	*	22	4.66	74	15.68
45-54	36	19.76	9	5.10	45	12.54	8	4.39	1	*	9	2.51	54	15.05
55-64	9	8.20	16	13.86	25	11.10	5	4.56	2	*	7	3.11	32	14.21
65-74	9	11.21	11	11.56	20	11.40	4	*	1	*	5	2.85	25	14.26
75+	8	12.71	13	13.45	21	13.16	4	*	4	*	8	5.01	29	18.17
Unknown	0		0		0		3		0		3		3	
Total	**217**	**14.68**	**139**	**9.70**	**356**	**12.23**	**66**	**4.46**	**19**	**1.33**	**85**	**2.92**	**441**	**15.15**

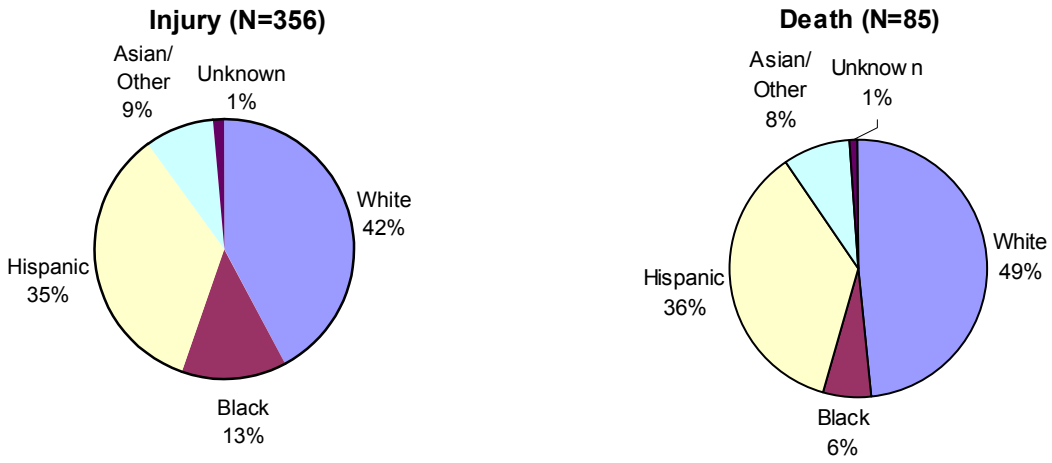
*Rates not calculated on fewer than five incidents
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 99/00; Population Estimates, SANDAG

The highest rates of pedestrian injury occurred in children younger than ten years, who made up 23% of all pedestrian injuries. Fatal injuries were more likely to occur in younger adults; 59% of deaths occurred to those between the ages of 20 and 54.



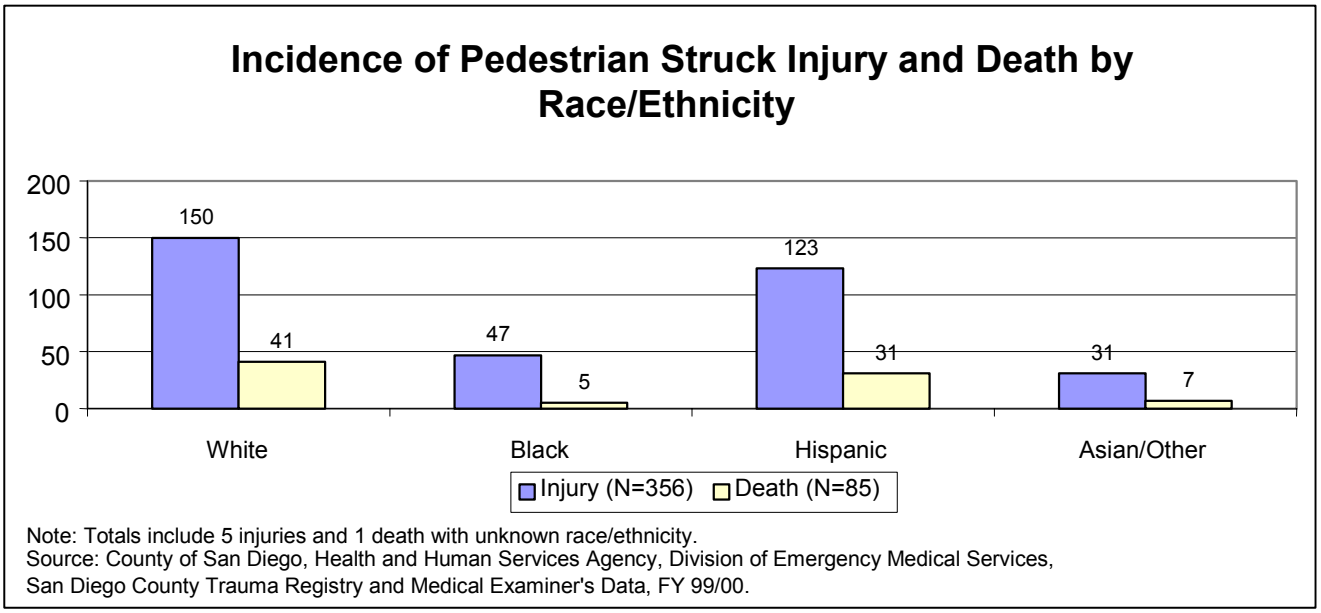
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

Incidence of Pedestrian Struck Injury and Death by Race/Ethnicity

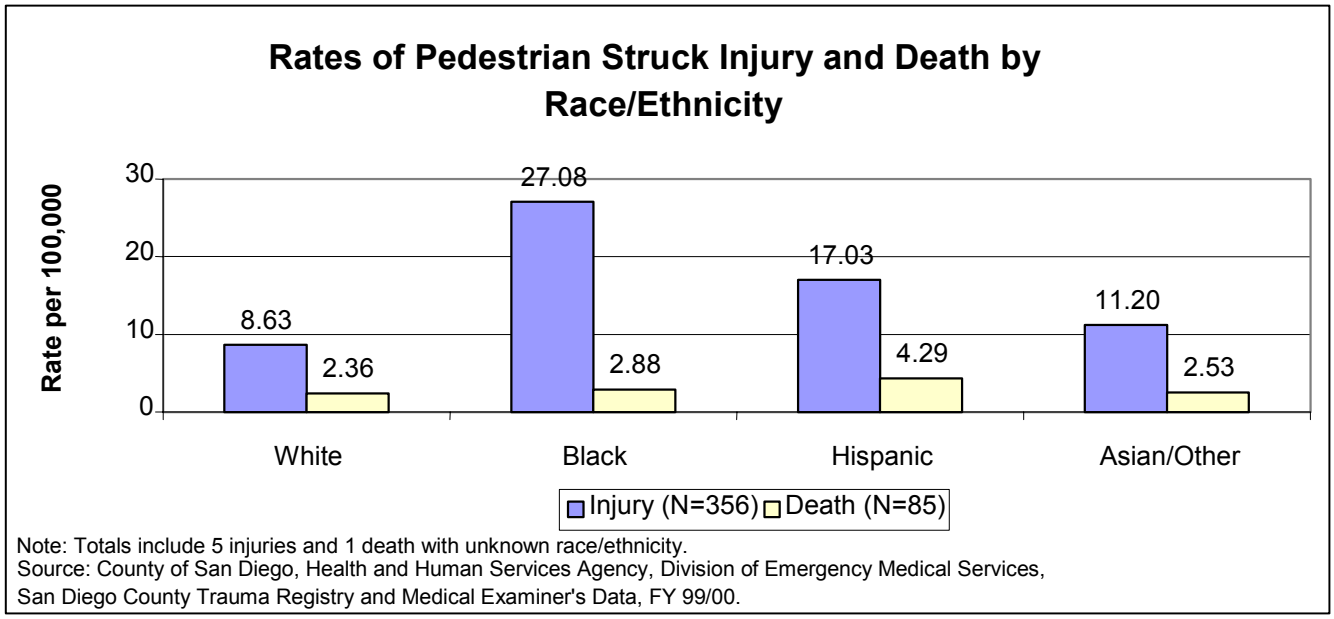


Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

The pedestrian injury rate was highest in the Black population (27.08 per 100,000), while deaths were highest among Hispanics (4.29 per 100,000).

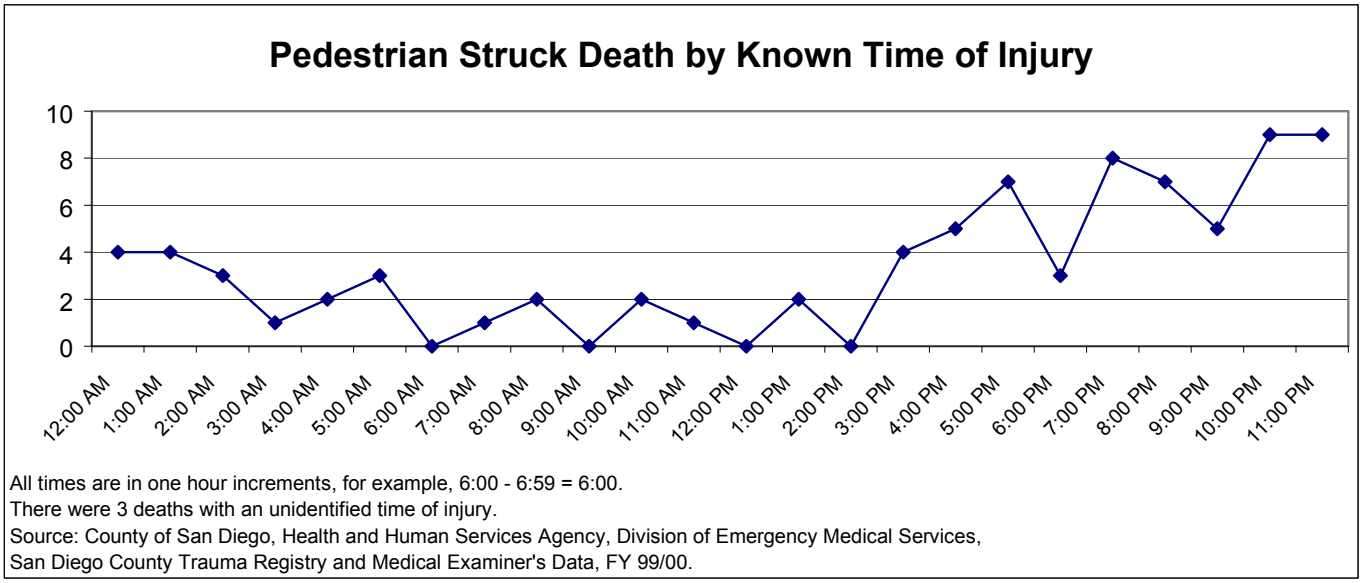


Note: Totals include 5 injuries and 1 death with unknown race/ethnicity.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

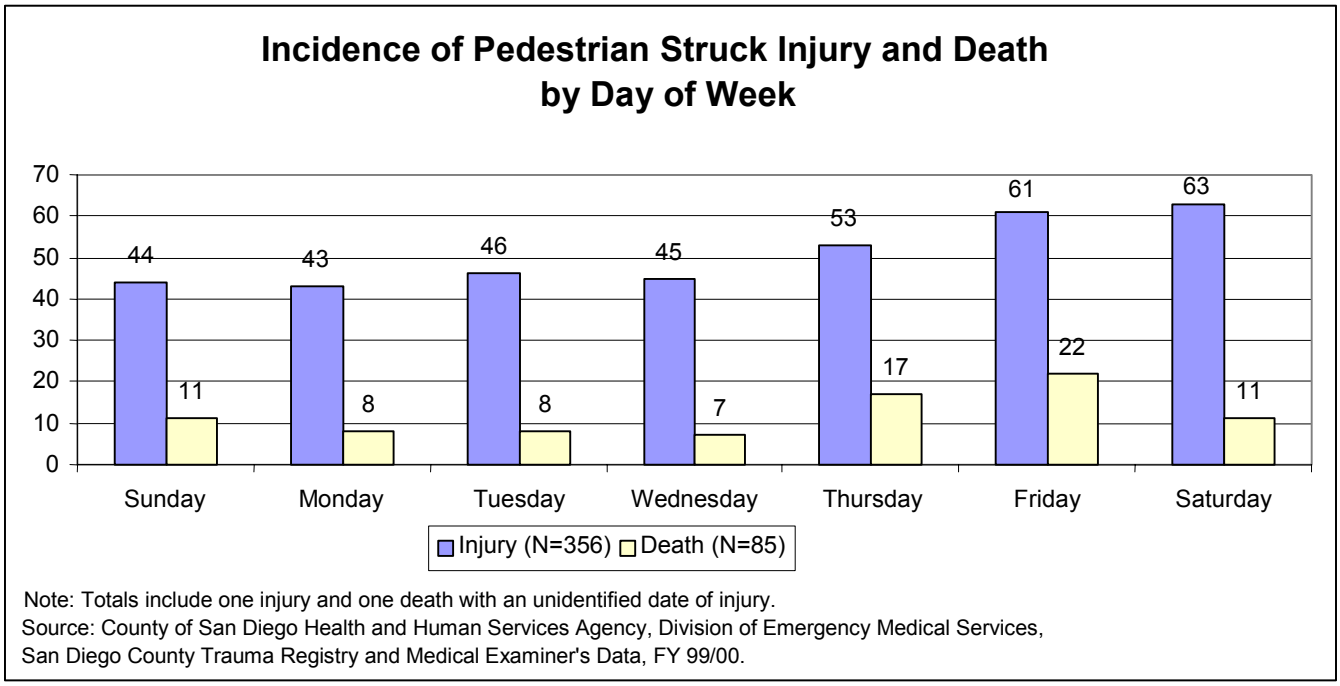


Note: Totals include 5 injuries and 1 death with unknown race/ethnicity.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

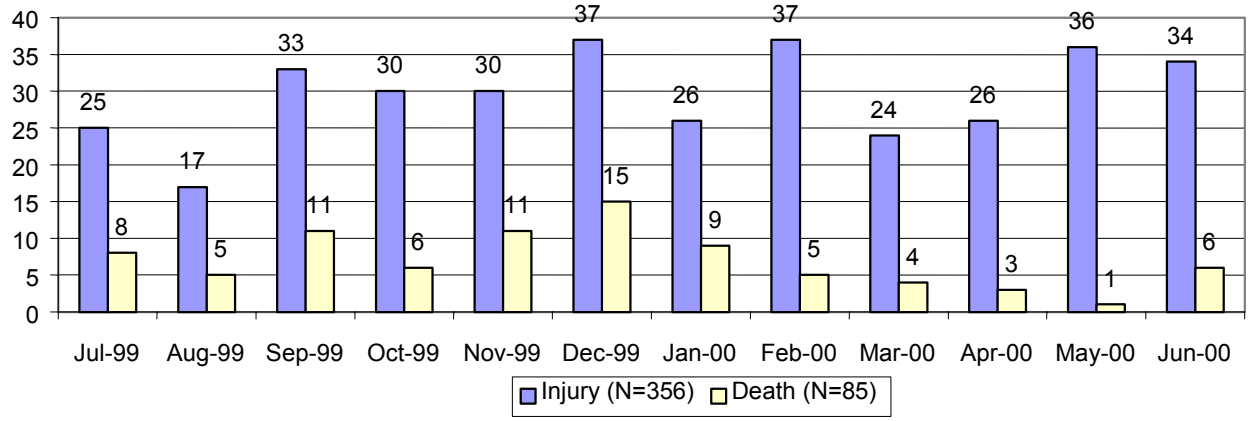
The number of pedestrian deaths increased during the late afternoon and evening hours, with the incidence peaking between 10:00 p.m. and midnight. Friday and Saturday had 35% of injuries, and deaths were most likely to happen on Thursday and Friday (46%). Pedestrian injuries peaked in December and February, and deaths peaked in December.



All times are in one hour increments, for example, 6:00 - 6:59 = 6:00.
There were 3 deaths with an unidentified time of injury.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.



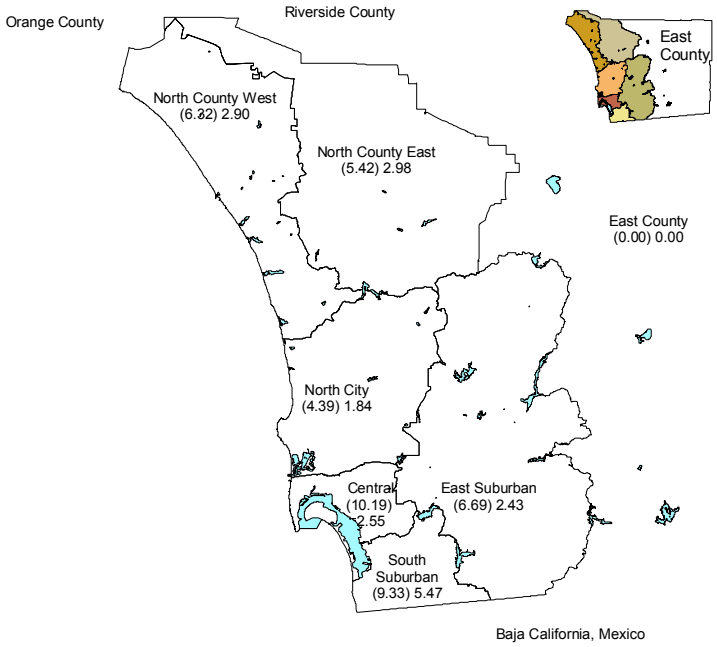
Note: Totals include one injury and one death with an unidentified date of injury.
Source: County of San Diego Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.



Note: Totals include one injury and one death with an unidentified date of injury.
Source: County of San Diego Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

Incidence and rates of injury by subregional areas (SRA) and Major Statistical Areas (MSA) were calculated from the zip code where the incident took place. The incident zip code was available for 56% of non-fatal pedestrian injuries and for 94% of deaths from pedestrian crashes. The Central MSA had the highest rate of pedestrian injury, while the pedestrian death rate was highest in the South Suburban MSA. Population estimates for each of the MSAs can be found in Appendix B.

Pedestrian Injury and Death Rates per 100,000 by San Diego Major Statistical Area



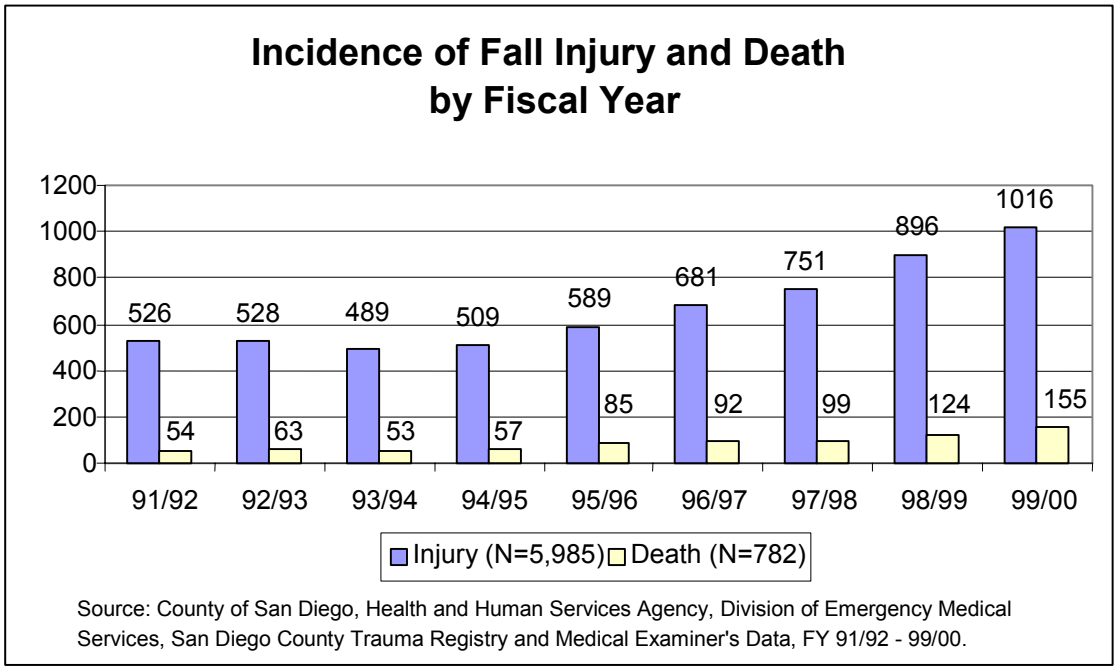
Legend
Rates displayed in parentheses () reflect injuries while those not in parentheses indicate deaths.
*Rates not calculated on fewer than five incidents.
Please note there were 155 injuries and 5 deaths with an unknown incident zip code.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 99/00; Population estimates, San Diego Association of Governments (SANDAG)

Other Unintentional Injuries and Deaths

In addition to violent and transportation related incidents, 1,529 trauma patients were injured or killed following a fall or during a sports/recreation activity. Another 244 were unintentionally injured or killed due to a variety of mechanisms that can best be classified as other. These include being struck by machinery/object, struck by falling object, and other unspecified accidents. See Technical Notes for a full listing of mechanisms included in the other category.

Falls

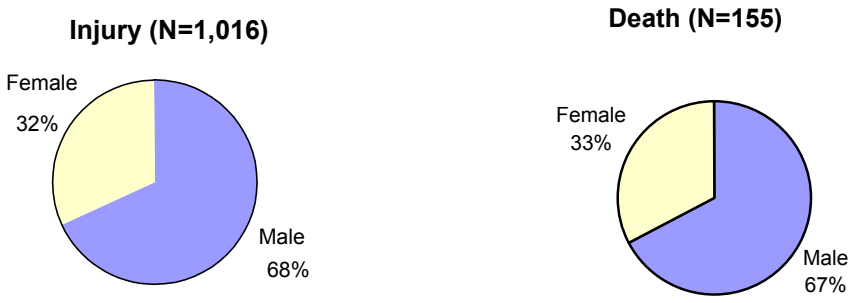
There were 1,016 injuries and 155 deaths resulting from falls in fiscal year 99/00. For every trauma patient who died as the result of a fall, more than six were severely injured. The number of fall injuries has increased steadily since FY 94/95, and the 13% increase in 99/00 from the previous year was statistically significant. The number of deaths also increased substantially in 99/00 (25% from the previous year), but this change was not statistically significant.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 91/92 - 99/00.

Males accounted for 68% of injuries and 67% of deaths due to falls and had higher rates of both death and injury for all age groups.

Incidence of Fall Injury and Death by Gender



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 99/00.

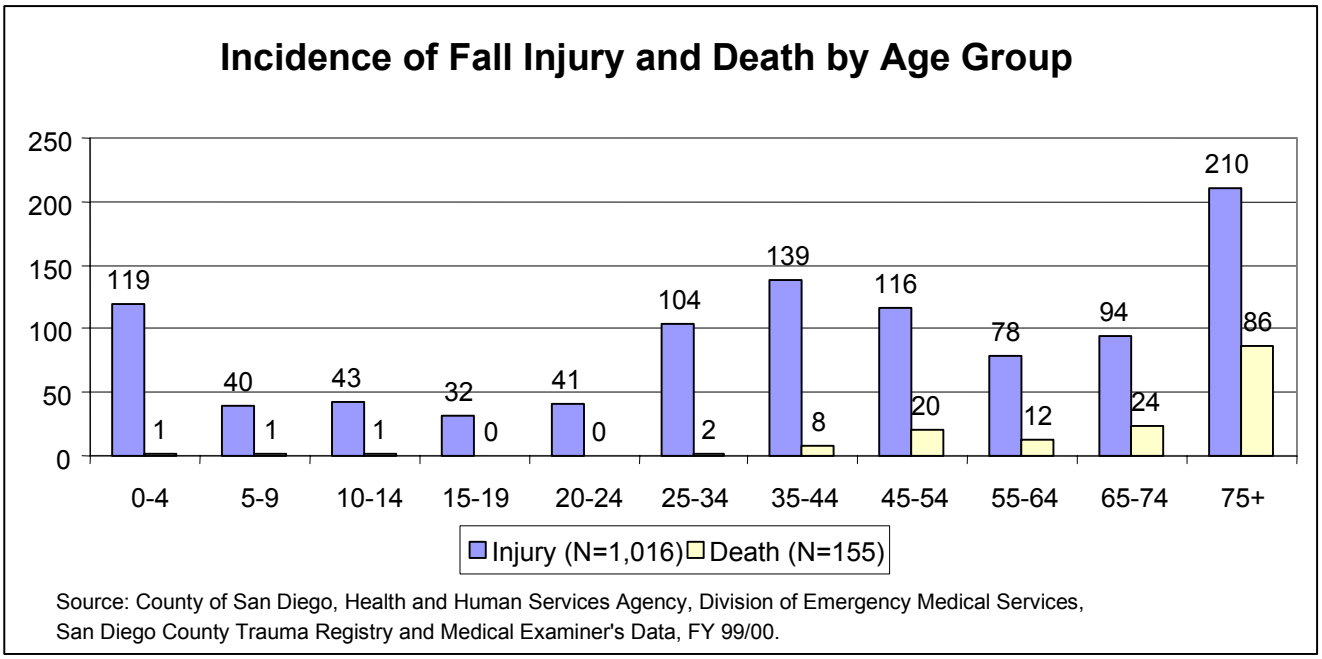
People over the age of 74 were at greatest risk of severe injury resulting from a fall, followed by 65-74 year olds and children under five (131.57, 53.60, and 50.73, respectively).

Incidence and Rate of Fall Injury and Death by Age Group and Gender

	Injury						Death						Overall Total	
	Male		Female		Total		Male		Female		Total			
	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate
0-4	76	64.11	43	37.06	119	50.73	1	*	0	-	1	*	120	51.16
5-9	27	23.35	13	12.06	40	17.90	1	*	0	-	1	*	41	18.35
10-14	29	27.59	14	14.08	43	21.02	1	*	0	-	1	*	44	21.51
15-19	27	27.43	5	5.28	32	16.58	0	-	0	-	0	-	32	16.58
20-24	30	23.68	11	11.33	41	18.32	0	-	0	-	0	-	41	18.32
25-34	83	35.20	21	10.22	104	23.57	2	*	0	-	2	0.45	106	24.02
35-44	118	48.51	21	9.19	139	29.46	7	2.88	1	0.44	8	1.70	147	31.15
45-54	84	46.11	32	18.12	116	32.33	20	10.98	0	-	20	5.57	136	37.91
55-64	59	53.79	19	16.46	78	34.64	9	8.20	3	*	12	5.33	90	39.97
65-74	58	72.27	36	37.85	94	53.60	14	17.44	10	10.51	24	13.68	118	67.28
75+	100	158.89	110	113.79	210	131.57	49	77.86	37	38.27	86	53.88	296	185.46
Total	**691**	**46.74**	**325**	**22.68**	**1,016**	**34.90**	**104**	**7.03**	**51**	**3.56**	**155**	**5.32**	**1,171**	**40.22**

*Rates not calculated on fewer than five incidents.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 99/00; Population Estimates, SANDAG

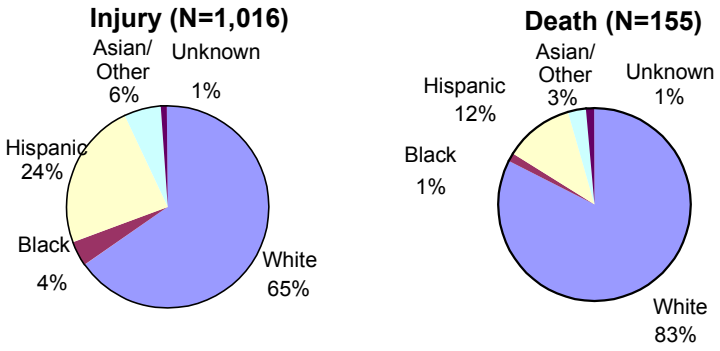
More than one out of every four persons over the age of 64 who sustained a serious injury from a fall died from that injury. Seventy-one percent of all fall deaths were to people over 64 years of age.



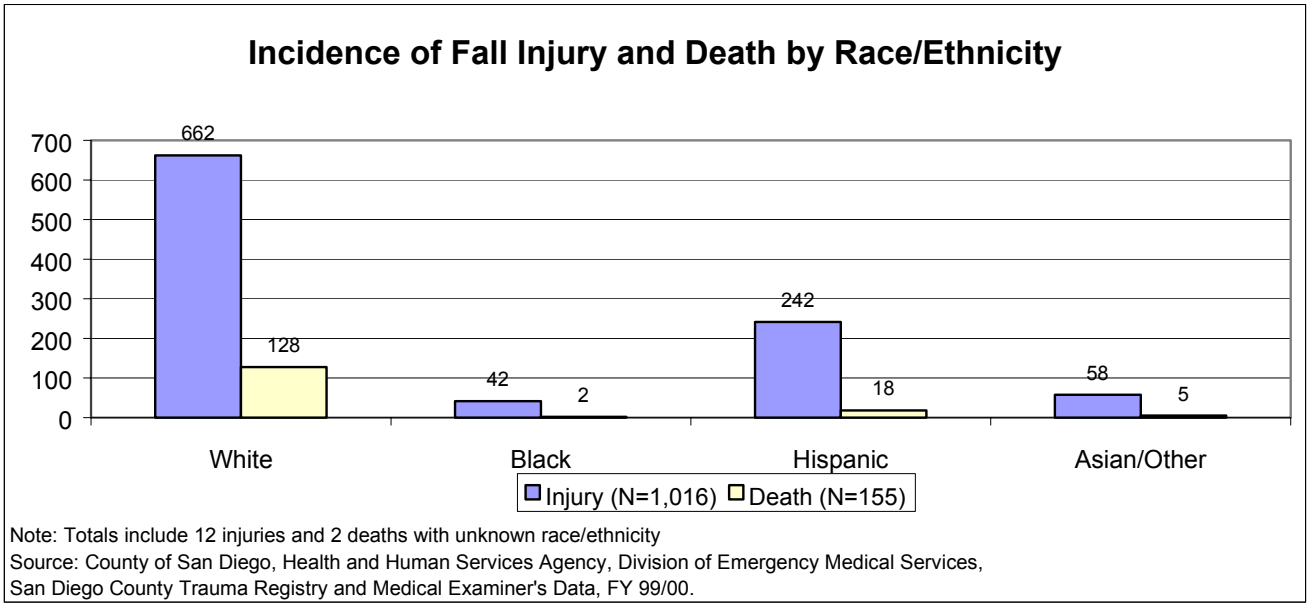
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

During FY 99/00, the White population had the highest incidence and rate of injuries and deaths resulting from a fall. Sixty five percent of injuries and 83% of deaths occurred in the White population.

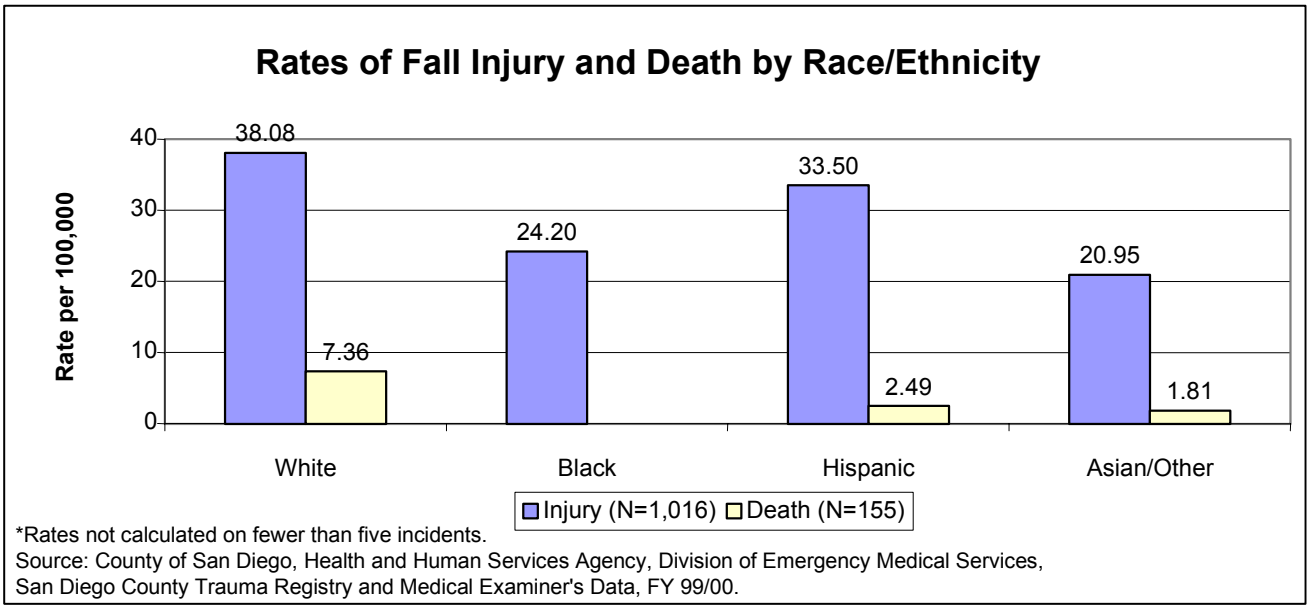
Incidence of Fall Injury and Death by Race/Ethnicity



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 99/00.

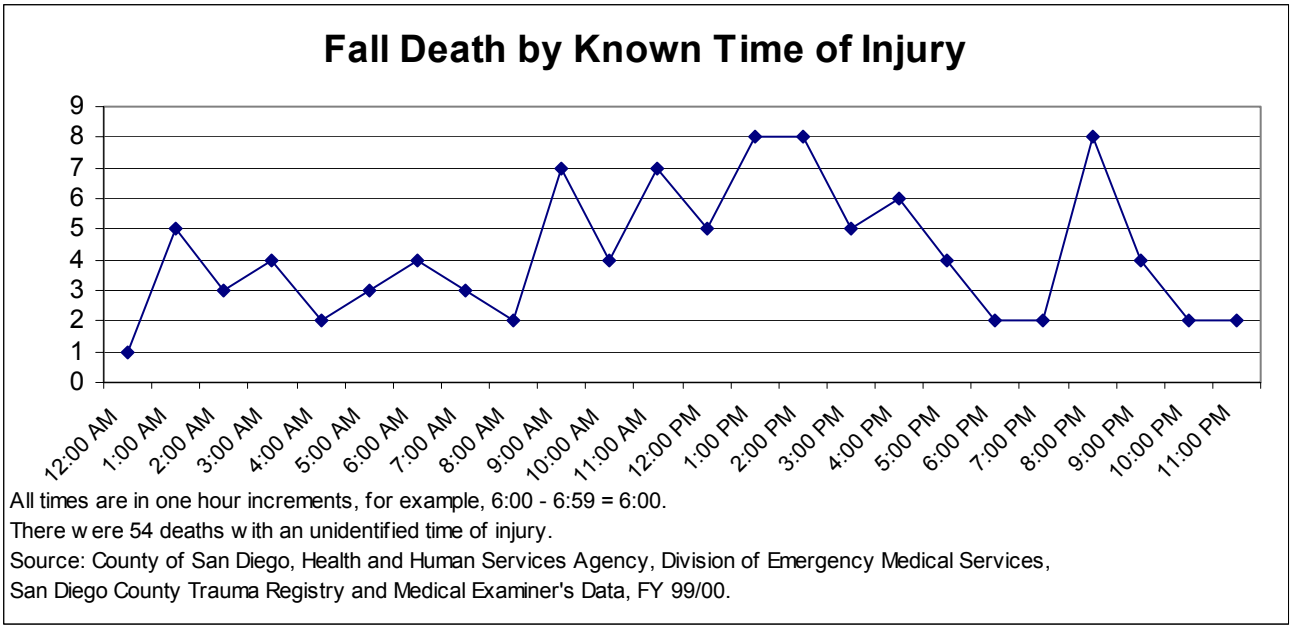


Note: Totals include 12 injuries and 2 deaths with unknown race/ethnicity
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.



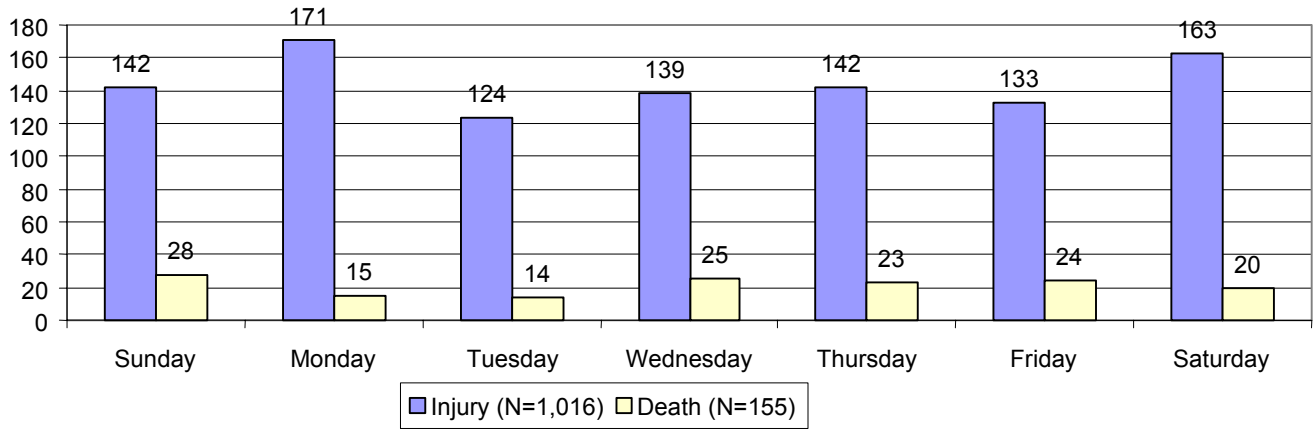
*Rates not calculated on fewer than five incidents.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

The majority of fall related deaths occurred during the day and had their highest incidence during the 1:00 p.m., 2:00 p.m., and 8:00 p.m. hours. Injuries and deaths due to falls did not appear to vary substantially by day of week or month, but injuries did peak on Mondays and during the month of April.



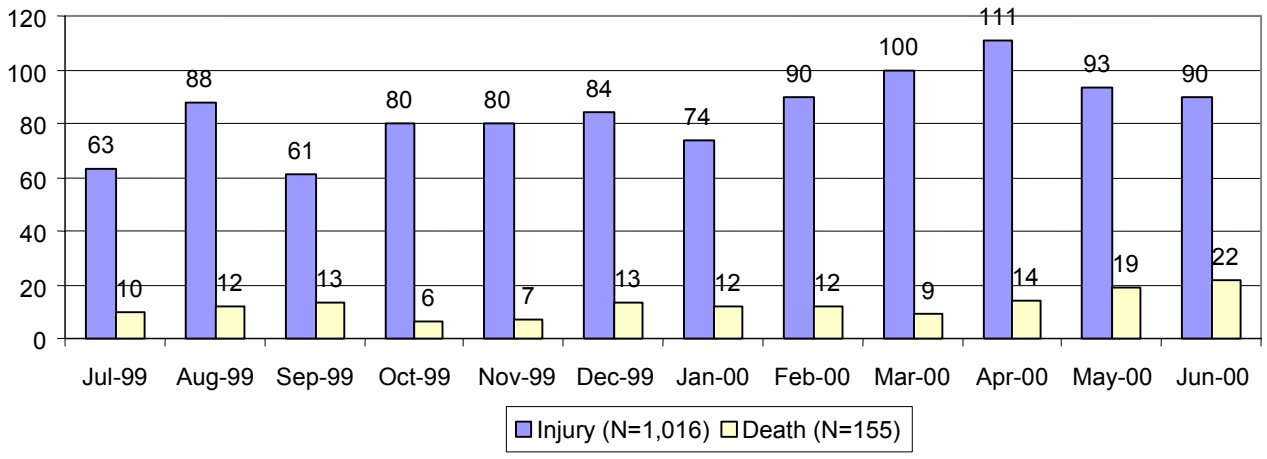
All times are in one hour increments, for example, 6:00 - 6:59 = 6:00.
There were 54 deaths with an unidentified time of injury.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

Incidence of Fall Injury and Death by Day of Week



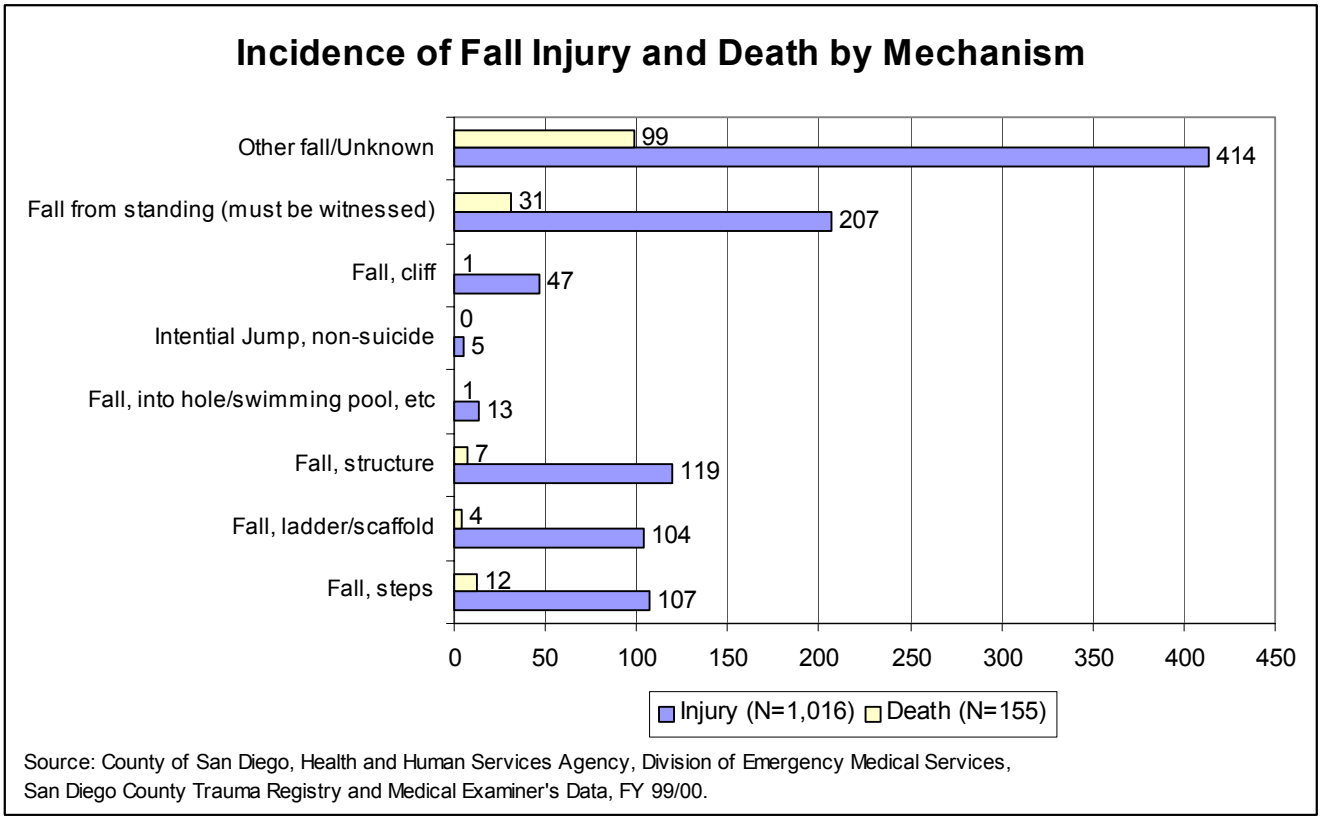
*There were two injuries and six deaths with an unidentified day of week.
Source: County of San Diego Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

Incidence of Fall Injury and Death by Month



Note: Totals include two injuries and six deaths with an unidentified month of injury.
Source: County of San Diego Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

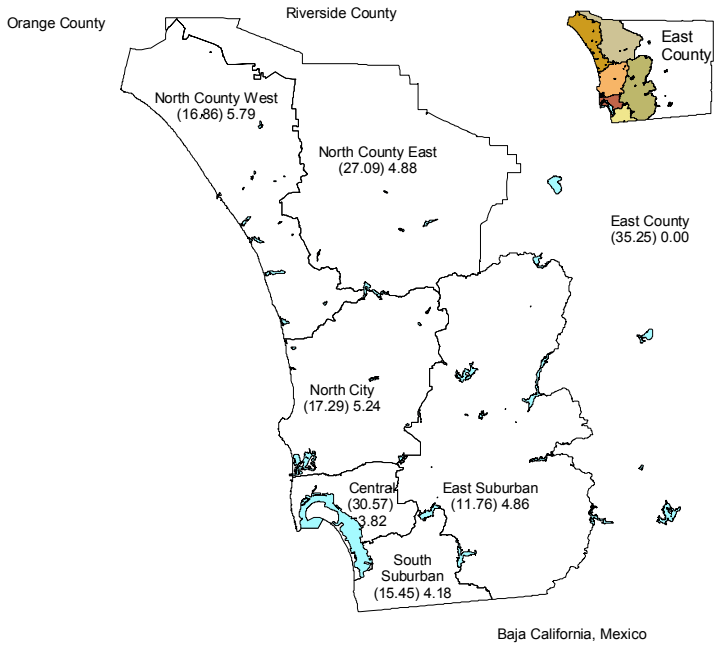
There were 238 falls from a standing position which were witnessed by another person, and 126 falls from structures. Forty four percent of falls were categorized as other/unknown.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

Incidence and rates of injury by subregional areas (SRA) and Major Statistical Areas (MSA) were calculated from the zip code where the incident took place. The incident zip code was available for 58% of non-fatal fall injuries and for 89% of deaths from falls. The Central MSA had the highest rate of fall injury (30.57), while the death rate was highest in the North County West MSA (5.79). Population estimates for each of the MSAs can be found in Appendix B.

Fall Injury and Death Rates per 100,000 by San Diego Major Statistical Area

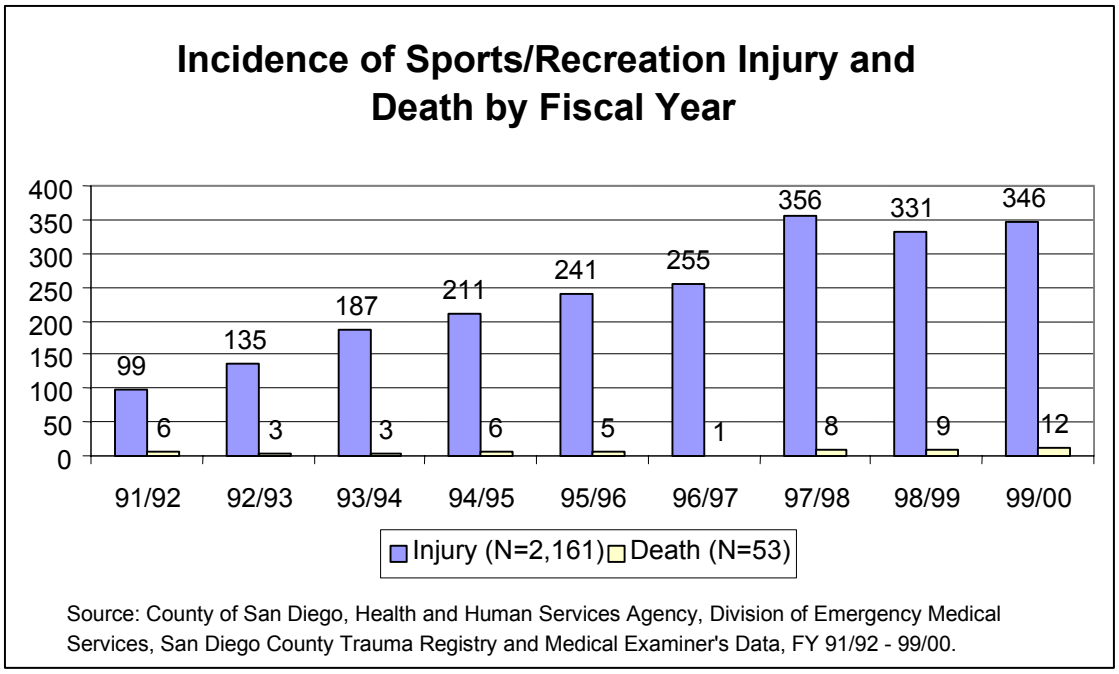


Legend
Rates displayed in parentheses () reflect injuries while those not in parentheses indicate deaths.
*Rates not calculated on fewer than five incidents.
Please note there were 423 injuries and 17 deaths with an unknown incident zip code.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 99/00; Population estimates, San Diego Association of Governments (SANDAG)

Sports and Recreation

Sports and recreation injuries include: skates, roller blades, skiing, sleds, off road vehicles, riding animals, water sports, fall from playground equipment or injuries sustained while participating in sports (hit, kicked, struck). Sports and recreation did not account for a large percentage of injury deaths or years of potential life lost. On average, there was less than one death for every 28 severe injuries due to sports/recreation activity.

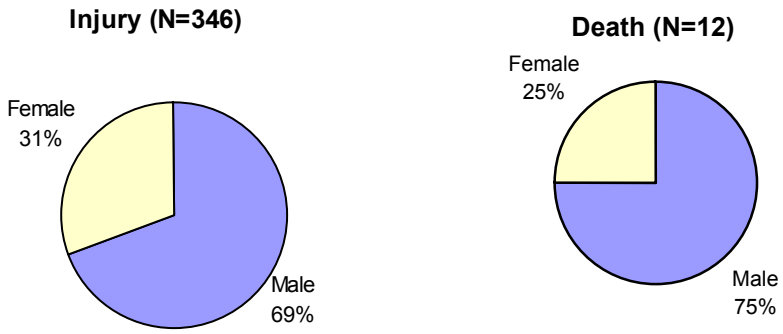
The number of injuries increased 4.5% during FY 99/00 over the previous fiscal year, and the number of deaths increased from nine to twelve. Neither of these changes was statistically significant.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 91/92 - 99/00.

Sixty nine percent of injuries and 75% of deaths due to sports/recreation activity were to males. More than half of the severe injuries occurred among those under the age of 20.

Incidence of Sports/Recreation Injury and Death by Gender



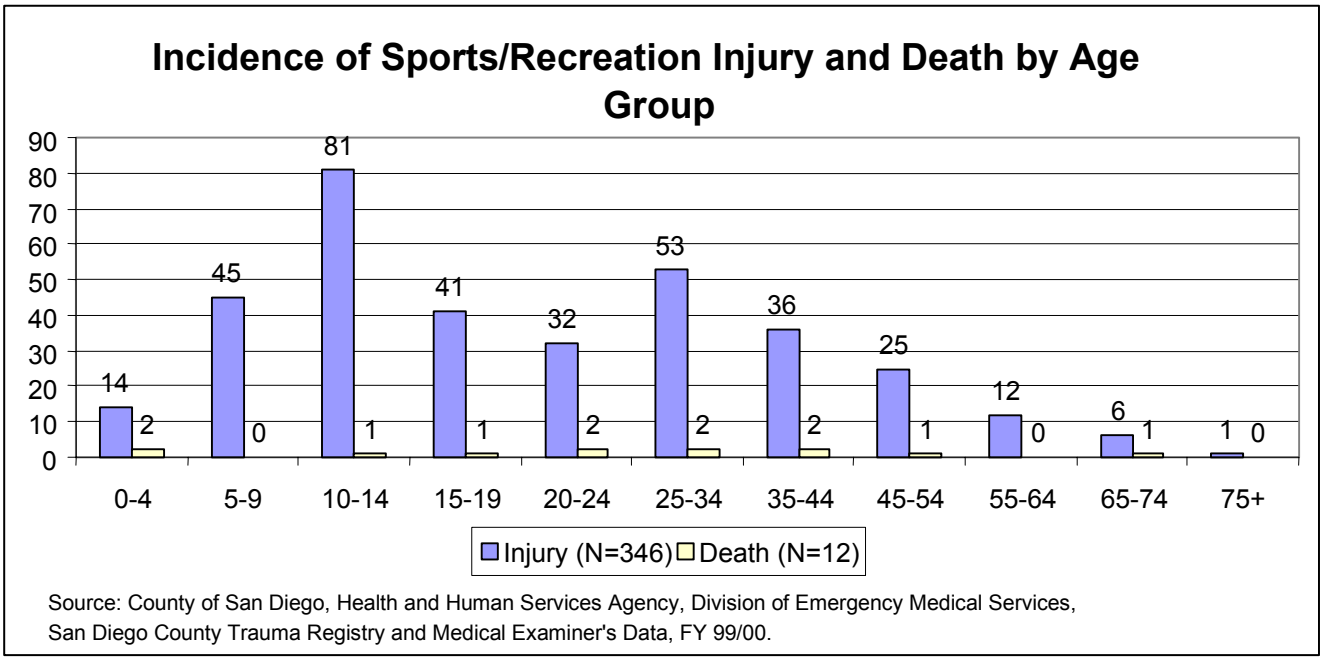
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 99/00.

Incidence and Rate of Sports and Recreation Injury by Age Group and Gender

	Injury					
	Male		Female		Total	
	Incidence	Rate	Incidence	Rate	Incidence	Rate
0-4	7	5.91	7	6.03	14	5.97
5-9	29	25.08	16	14.84	45	20.14
10-14	60	57.08	21	21.12	81	39.60
15-19	32	32.51	9	9.51	41	21.24
20-24	27	21.31	5	5.15	32	14.30
25-34	38	16.11	15	7.30	53	12.01
35-44	25	10.28	11	4.81	36	7.63
45-54	10	5.49	15	8.49	25	6.97
55-64	7	6.38	5	4.33	12	5.33
65-74	4	*	2	*	6	3.42
75+	0	-	1	*	1	*
Total	**239**	**16.16**	**107**	**7.47**	**346**	**11.88**

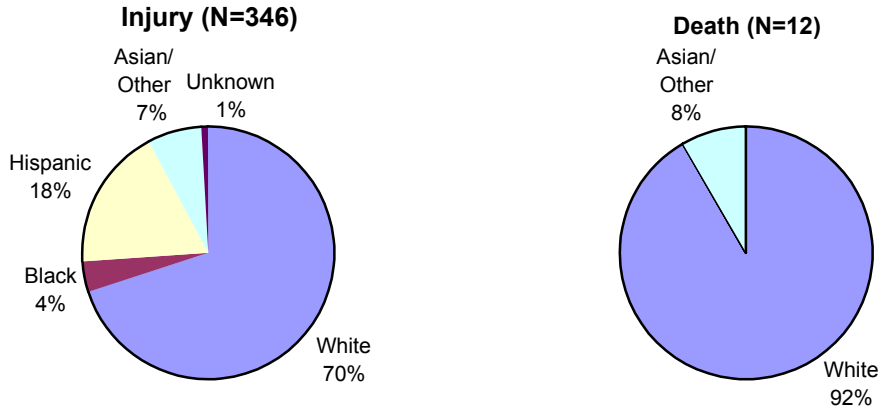
*Rates not calculated on fewer than five incidents.
Due to low numbers deaths were not included in the table.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 99/00; Population Estimates, SANDAG

The age group with the highest incidence and rate of injury due to sports and recreation was 10-14 years old. Sports and recreation injuries were the leading cause of severe injury for this age group, accounting for 29% of their injuries. Whites had 70% of injuries as well as the highest rate of injury due to sports and recreation activities.

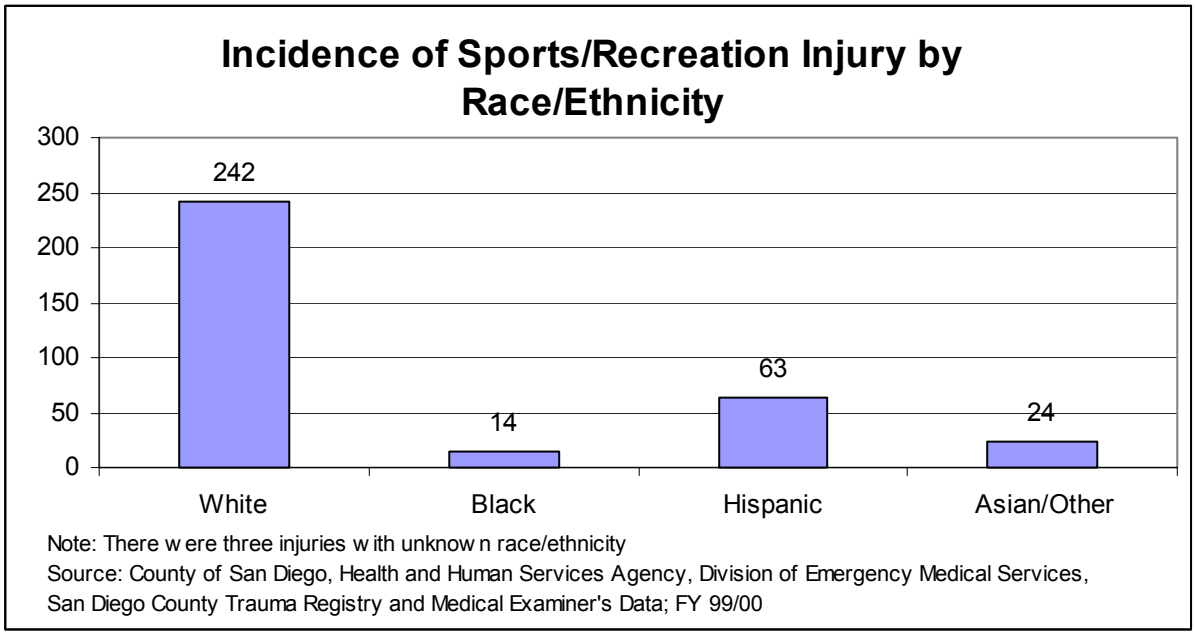


Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

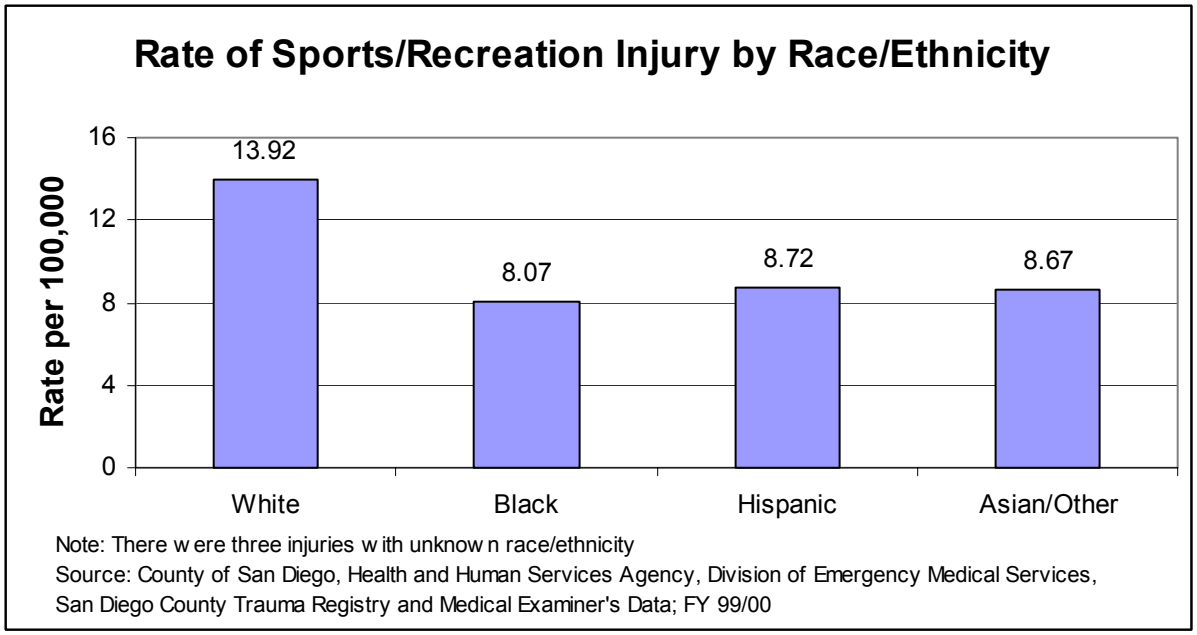
Incidence of Sports/Recreation Injury and Death by Race/Ethnicity



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 99/00.

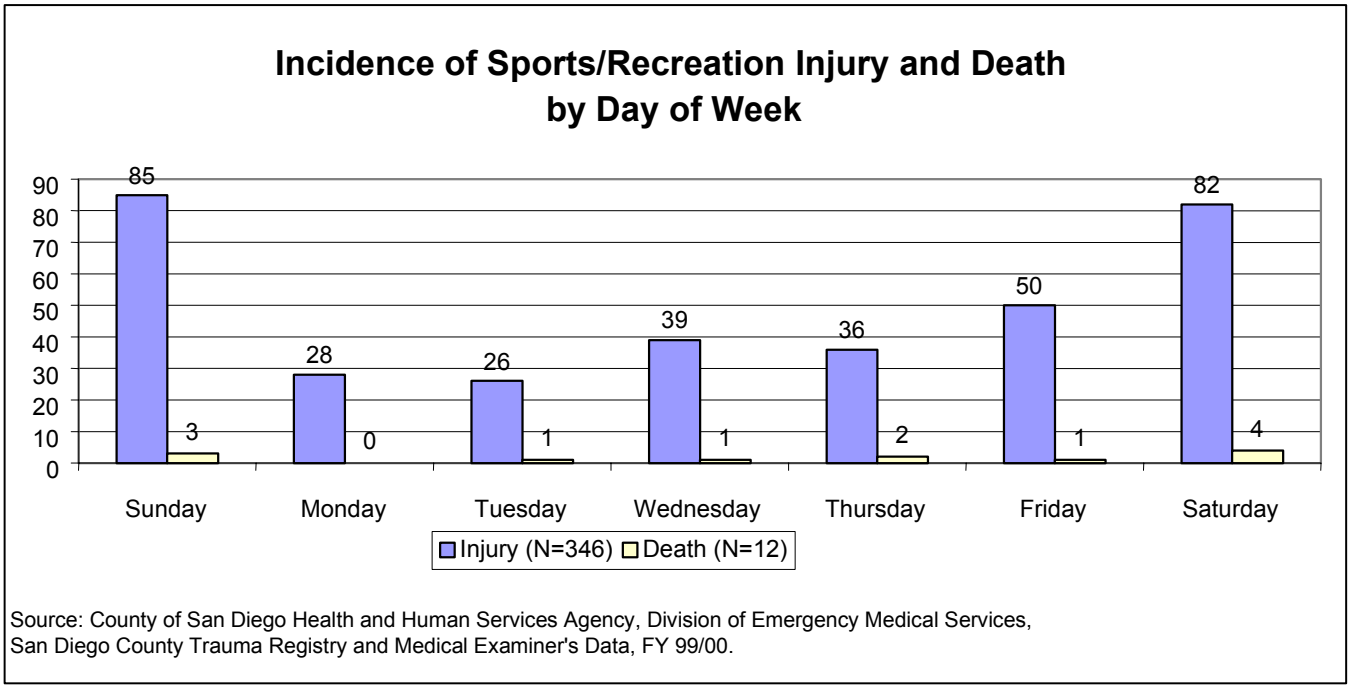


Note: There were three injuries with unknown race/ethnicity
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 99/00

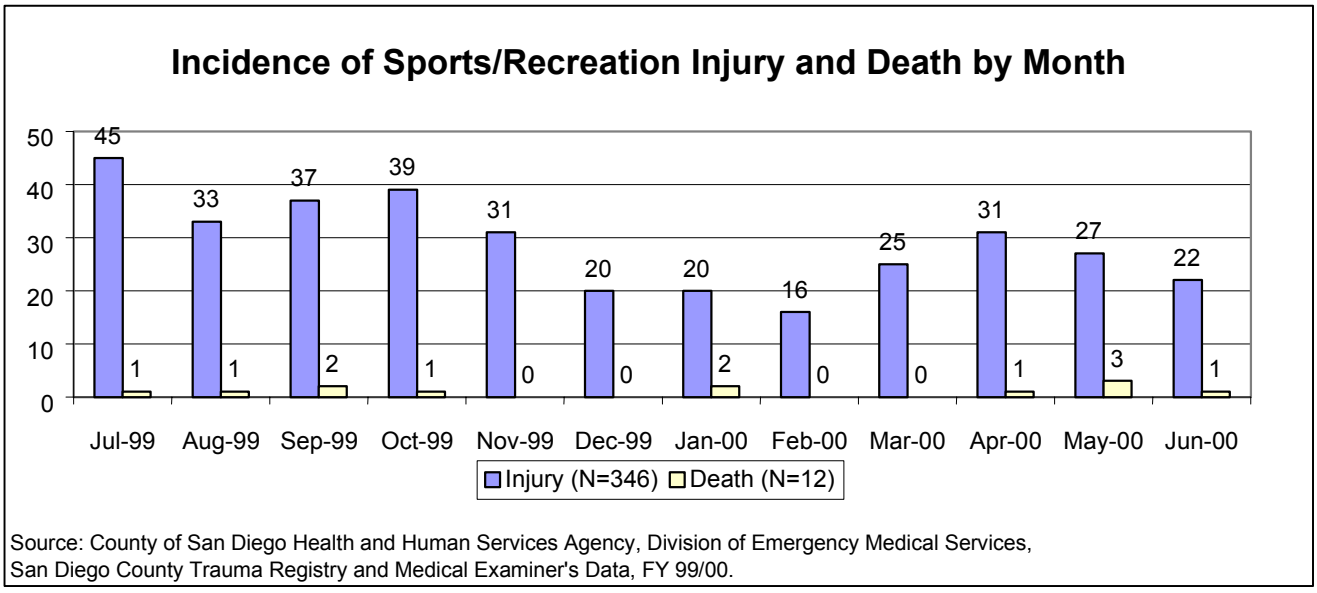


Note: There were three injuries with unknown race/ethnicity
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 99/00

Almost half (48%) of sports and recreation-related injuries occurred on weekends, and more injuries occurred in July than any other month.

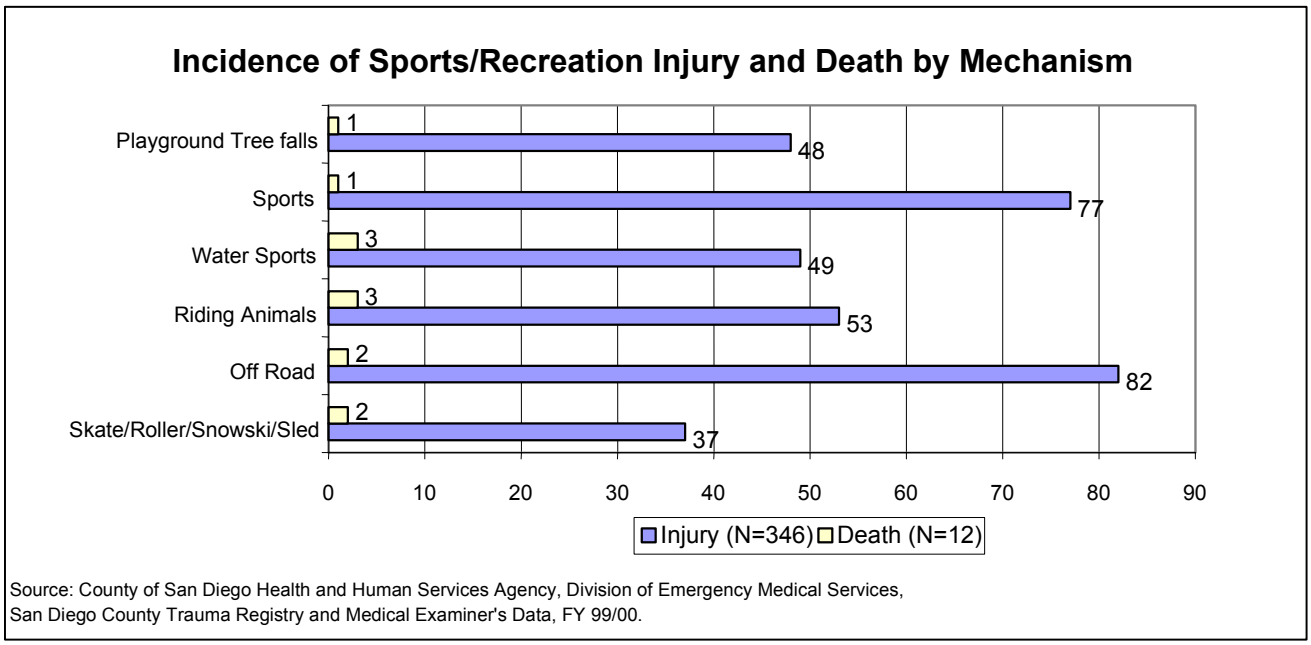


Source: County of San Diego Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.



Source: County of San Diego Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

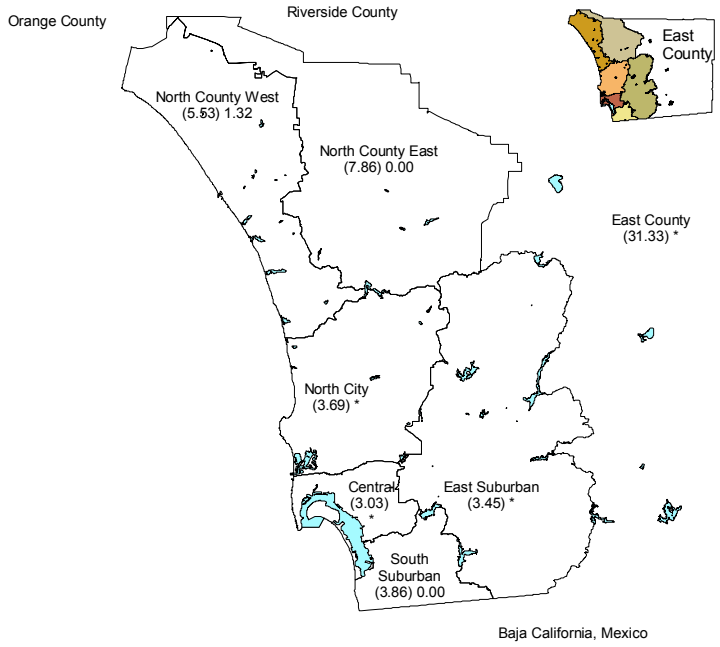
The highest number of injuries were due to off-road vehicle activity, followed by sports, riding animals, and water sports.



Source: County of San Diego Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 99/00.

Incidence and rates of injury by subregional areas (SRA) and Major Statistical Areas (MSA) were calculated from the zip code where the incident took place. The incident zip code was available for 38% of non-fatal sports and recreation injuries and for 100% of deaths. Injury rates were at least 3.9 times higher in the East county region of San Diego than any other MSA. Population estimates for each of the MSAs can be found in Appendix B.

Sports and Recreation Injury and Death Rates per 100,000 by San Diego Major Statistical Area



Legend
Rates displayed in parentheses () reflect injuries while those not in parentheses indicate deaths.
*Rates not calculated on fewer than five incidents.
Please note there were 214 injuries with an unknown incident zip code.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 99/00; Population estimates, San Diego Association of Governments (SANDAG)

Who is at Greatest Risk of Violent Injury and Death (Rates = Incidence per 100,000 Population)

- **Homicide:** Hispanic males aged 25-34 (17.11) and 15-19 (16.16) were at greatest risk of homicide. While the rate for all ages combined was highest in Black males (15.26), the age group-specific numbers were insufficient to calculate rates for comparison.

- **Assault:** Hispanic and Black males age 15-19 (174.49 and 163.15, respectively) were at highest risk of sustaining a serious injury due to an assault, followed by Hispanic males 20-24 years of age (160.89). Among females, the greatest risk was to Blacks aged 35-44 (62.82).

- **Homicide by Firearm:** Hispanics aged 25-34 (4.21), and 35-44 year old Whites (2.69) were the only groups with a sufficient number of incidents to calculate a rate (five or more).

- **Homicide by Stabbing:** Hispanics aged 25-34 (5.89) were the only group with a sufficient number of incidents to calculate a rate.

- **Unarmed Assault:** Blacks aged 15-19, under five, and 35-44 years were at greatest risk of serious injury due to an unarmed assault, with rates of 48.15, 29.64, and 29.24, respectively.

- **Assault by Firearm:** Blacks and Hispanics aged 15-19 (34.39 and 18.68) were most likely to be assaulted with a gun.

- **Assault by Stabbing:** Hispanics and Blacks aged 20-24 (44.70 and 41.35) were at greatest risk of serious injury due to stabbing assault.

- **Suicide:** The rate for White males 75 years and older (58.51) was more than five times higher than the rate for males of all ages (10.55).

- **Self Inflicted Injuries:** White males 20-24 years of age (8.43), Hispanic males aged 25-34 (7.78), and White males aged 35-44 (6.49) were most likely to inflict injuries on themselves.

Incidence and Rates of Homicide by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Pop	Incidence	Rate	Pop	Incidence	Rate	Pop	Incidence	Rate
Under 5									
White	52,264	1	*	49,597	0	-	101,861	1	*
Black	8,624	2	*	8,244	0	-	16,868	2	*
Hispanic	45,907	0	-	47,206	2	*	93,113	2	*
Asian/Other	11,743	0	-	10,972	0	-	22,715	0	-
Subtotal	118,538	3	*	116,019	2	*	234,557	5	2.13
5-9									
White	55,070	0	-	51,453	1	*	106,523	1	*
Black	8,549	0	-	8,221	0	-	16,770	0	-
Hispanic	40,945	0	-	37,628	0	-	78,573	0	-
Asian/Other	11,048	0	-	10,537	0	-	21,585	0	-
Subtotal	115,612	0	-	107,839	1	*	223,451	1	*
10-14									
White	52,334	0	-	49,800	0	-	102,134	0	-
Black	7,517	0	-	7,351	0	-	14,868	0	-
Hispanic	34,325	0	-	31,743	0	-	66,068	0	-
Asian/Other	10,944	0	-	10,556	0	-	21,500	0	-
Subtotal	105,120	0	-	99,450	0	-	204,570	0	-
15-19									
White	48,679	1	*	49,555	1	*	98,234	2	*
Black	7,968	3	*	6,569	1	*	14,537	4	*
Hispanic	30,947	5	16.16	27,933	0	-	58,880	5	8.49
Asian/Other	10,851	1	*	10,553	0	-	21,404	1	*
Unknown	---	0	---	---	1	---	---	1	---
Subtotal	98,445	10	10.16	94,610	3	*	193,055	13	6.73
20-24									
White	71,179	4	*	52,385	2	*	123,564	6	4.86
Black	10,481	3	*	6,446	0	-	16,927	3	*
Hispanic	32,941	4	*	27,462	0	-	60,403	4	*
Asian/Other	12,092	3	*	10,755	0	-	22,847	3	*
Subtotal	126,693	14	11.05	97,048	2	*	223,741	16	7.15
25-34									
White	133,693	3	*	115,103	2	*	248,796	5	2.01
Black	16,211	2	*	13,667	0	-	29,878	2	*
Hispanic	64,301	11	17.11	54,526	2	*	118,827	13	10.94
Asian/Other	21,601	2	*	22,173	0	-	43,774	2	*
Subtotal	235,806	18	7.63	205,469	4	*	441,275	22	4.99
35-44									
White	154,051	9	5.84	142,920	3	*	296,971	12	4.04
Black	14,627	1	*	12,735	0	-	27,362	1	*
Hispanic	54,589	2	*	49,145	2	*	103,734	4	*
Asian/Other	19,995	0	-	23,833	0	-	43,828	0	-
Unknown	---	1	---	---	0	---	---	1	---
Subtotal	243,262	13	5.34	228,633	5	2.19	471,895	18	3.81
45-54									
White	123,528	3	*	114,933	1	*	238,461	4	*
Black	9,371	1	*	8,827	1	*	18,198	2	*
Hispanic	33,866	1	*	33,758	1	*	67,624	2	*
Asian/Other	15,424	0	-	19,083	0	-	34,507	0	-
Unknown	---	0	---	---	1	---	---	1	---
Subtotal	182,189	5	2.74	176,601	4	*	358,790	9	2.51
55-64									
White	78,101	4	*	79,094	1	*	157,195	5	3.18
Black	4,733	2	*	4,916	1	*	9,649	3	*
Hispanic	17,335	3	*	19,161	0	-	36,496	3	*
Asian/Other	9,522	0	-	12,291	1	*	21,813	1	*
Subtotal	109,691	9	8.20	115,462	3	*	225,153	12	5.33
65-74									
White	62,699	1	*	71,433	3	*	134,132	4	*
Black	2,430	0	-	2,812	0	-	5,242	0	-
Hispanic	9,662	1	*	12,343	0	-	22,005	1	*
Asian/Other	5,465	0	-	8,531	0	-	13,996	0	-
Subtotal	80,256	2	*	95,119	3	*	175,375	5	2.85
75+									
White	51,273	0	-	79,520	1	*	130,793	1	*
Black	1,254	0	-	1,998	0	-	3,252	0	-
Hispanic	6,870	1	*	9,784	0	-	16,654	1	*
Asian/Other	3,538	0	-	5,369	0	-	8,907	0	-
Subtotal	62,935	1	*	96,671	1	*	159,606	2	*
Total	**1,478,547**	**75**	**5.07**	**1,432,921**	**28**	**1.95**	**2,911,468**	**103**	**3.54**

* Rate not calculated on less than five incidents.

** Totals include 3 females with an unspecified age.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 99/00; Population Estimates, SANDAG

Incidence and Rates of Assault by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Pop	Incidence	Rate	Pop	Incidence	Rate	Pop	Incidence	Rate
Under5									
White	52,264	2	*	49,597	1	*	101,861	3	*
Black	8,624	2	*	8,244	3	*	16,868	5	29.64
Hispanic	45,907	3	*	47,206	10	21.18	93,113	13	13.96
Asian/Other	11,743	0	-	10,972	1	*	22,715	1	*
Subtotal	118,538	7	5.91	116,019	15	12.93	234,557	22	9.38
5-9									
White	55,070	1	*	51,453	0	-	106,523	1	*
Black	8,549	1	*	8,221	0	-	16,770	1	*
Hispanic	40,945	0	-	37,628	0	-	78,573		-
Asian/Other	11,048	0	-	10,537	2	*	21,585	2	*
Subtotal	115,612	2	*	107,839	2	*	223,451	4	*
10-14									
White	52,334	3	*	49,800	1	*	102,134	4	*
Black	7,517	2	*	7,351	0	-	14,868	2	*
Hispanic	34,325	3	*	31,743	1	*	66,068	4	*
Asian/Other	10,944	4	*	10,556	1	*	21,500	5	23.26
Subtotal	105,120	12	11.42	99,450	3	*	204,570	15	7.33
15-19									
White	48,679	21	43.14	49,555	2	*	98,234	23	23.41
Black	7,968	13	163.15	6,569	1	*	14,537	14	96.31
Hispanic	30,947	54	174.49	27,933	2	*	58,880	56	95.11
Asian/Other	10,851	8	73.73	10,553	0	-	21,404	8	37.38
Subtotal	98,445	96	97.52	94,610	5	5.28	193,055	101	52.32
20-24									
White	71,179	26	36.53	52,385	2	*	123,564	28	22.66
Black	10,481	12	114.49	6,446	2	*	16,927	14	82.71
Hispanic	32,941	53	160.89	27,462	0	-	60,403	53	87.74
Asian/Other	12,092	6	49.62	10,755	0	-	22,847	6	26.26
Subtotal	126,693	97	76.56	97,048	4	*	223,741	101	45.14
25-34									
White	133,693	46	34.41	115,103	6	5.21	248,796	52	20.90
Black	16,211	13	80.19	13,667	1	*	29,878	14	46.86
Hispanic	64,301	62	96.42	54,526	2	*	118,827	64	53.86
Asian/Other	21,601	7	32.41	22,173	1	*	43,774	8	18.28
Subtotal	235,806	128	54.28	205,469	10	4.87	441,275	138	31.27
35-44									
White	154,051	44	28.56	142,920	9	6.30	296,971	53	17.85
Black	14,627	12	82.04	12,735	8	62.82	27,362	20	73.09
Hispanic	54,589	38	69.61	49,145	5	10.17	103,734	43	41.45
Asian/Other	19,995	8	40.01	23,833	3	*	43,828	11	25.10
Subtotal	243,262	102	41.93	228,633	25	10.93	471,895	127	26.91
45-54									
White	123,528	26	21.05	114,933	9	7.83	238,461	35	14.68
Black	9,371	9	96.04	8,827	0	-	18,198	9	49.46
Hispanic	33,866	9	26.58	33,758	1	*	67,624	10	14.79
Asian/Other	15,424	3	*	19,083	1	*	34,507	4	*
Unknown	---	1	---	---	0	---	---	1	---
Subtotal	182,189	48	26.35	176,601	11	6.23	358,790	59	16.44
55-64									
White	78,101	6	7.68	79,094	1	*	157,195	7	4.45
Black	4,733	2	*	4,916	0	-	9,649	2	*
Hispanic	17,335	5	28.84	19,161	2	*	36,496	7	19.18
Asian/Other	9,522	1	*	12,291	0	-	21,813	1	*
Subtotal	109,691	14	12.76	115,462	3	*	225,153	17	7.55
65-74									
White	62,699	4	*	71,433	1	*	134,132	5	3.73
Black	2,430	0	-	2,812	0	-	5,242	0	-
Hispanic	9,662	2	*	12,343	0	-	22,005	2	*
Asian/Other	5,465	0	-	8,531	1	*	13,996	1	*
Unknown	---	1	---	---	0	---	---	1	---
Subtotal	80,256	7	8.72	95,119	2	*	175,375	9	5.13
75+									
White	51,273	6	11.70	79,520	1	*	130,793	7	5.35
Black	1,254	0	-	1,998	0	-	3,252	0	-
Hispanic	6,870	1	*	9,784	1	*	16,654	2	*
Asian/Other	3,538	0	-	5,369	0	-	8,907	0	-
Subtotal	62,935	7	11.12	96,671	2	*	159,606	9	5.64
Total	**1,478,547**	**520**	**35.17**	**1,432,921**	**82**	**5.72**	**2,911,468**	**602**	**20.68**

* Rate not calculated on less than five incidents.

** Totals include 1 male with an unspecified age.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 99/00; Population Estimates, SANDAG

Incidence and Rates of Homicide by Age Group, Race/Ethnicity and Mechanism

	Pop	Unarmed		Gunshot		Stabbing		Other Assault	
		Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate
Under5									
White	101,861	1	*	0	-	0	-	0	-
Black	16,868	2	*	0	-	0	-	0	-
Hispanic	93,113	1	*	0	-	0	-	1	*
Asian/Other	22,715	0	-	0	-	0	-	0	-
Subtotal	234,557	4	*	0	-	0	-	1	*
5-9									
White	106,523	1	*	0	-	0	-	0	-
Black	16,770	0	-	0	-	0	-	0	-
Hispanic	78,573	0	-	0	-	0	-	0	-
Asian/Other	21,585	0	-	0	-	0	-	0	-
Subtotal	223,451	1	*	0	-	0	-	0	-
10-14									
White	102,134	0	-	0	-	0	-	0	-
Black	14,868	0	-	0	-	0	-	0	-
Hispanic	66,068	0	-	0	-	0	-	0	-
Asian/Other	21,500	0	-	0	-	0	-	0	-
Subtotal	204,570	0	-	0	-	0	-	0	-
15-19									
White	98,234	0	-	2	*	0	-	0	-
Black	14,537	0	-	3	*	1	*	0	-
Hispanic	58,880	0	-	4	*	1	*	0	-
Asian/Other	21,404	0	-	1	*	0	-	0	-
Subtotal	193,055	0	-	11	5.70	2	*	0	-
20-24									
White	123,564	2	*	1	*	1	*	2	*
Black	16,927	0	-	3	*	0	-	0	-
Hispanic	60,403	0	-	4	*	0	-	0	-
Asian/Other	22,847	0	-	3	*	0	-	0	-
Subtotal	223,741	2	*	11	4.92	1	*	2	*
25-34									
White	248,796	0	-	3	*	1	*	1	*
Black	29,878	0	-	2	*	0	-	0	-
Hispanic	118,827	0	-	5	4.21	7	5.89	1	*
Asian/Other	43,774	0	-	1	*	0	-	1	*
Subtotal	441,275	0	-	11	2.49	8	1.81	3	*
35-44									
White	296,971	0	-	8	2.69	2	*	2	*
Black	27,362	0	-	1	*	0	-	0	-
Hispanic	103,734	1	*	2	*	0	-	1	*
Asian/Other	43,828	0	-	0	-	0	-	0	-
Subtotal	471,895	1	*	12	2.54	2	*	3	*
45-54									
White	238,461	0	-	1	*	2	*	1	*
Black	18,198	0	-	1	*	0	-	1	*
Hispanic	67,624	0	-	2	*	0	-	0	-
Asian/Other	34,507	0	-	0	-	0	-	0	-
Subtotal	358,790	0	-	5	1.39	2	*	2	*
55-64									
White	157,195	2	*	2	*	1	*	0	-
Black	9,649	2	*	1	*	0	-	0	-
Hispanic	36,496	0	-	1	*	2	*	0	-
Asian/Other	21,813	1	*	0	-	0	-	0	-
Subtotal	225,153	5	2.22	4	*	3	*	0	-
65-74									
White	134,132	0	-	3	*	0	-	1	*
Black	5,242	0	-	0	-	0	-	0	-
Hispanic	22,005	1	*	0	-	0	-	0	-
Asian/Other	13,996	0	-	0	-	0	-	0	-
Subtotal	175,375	1	*	3	*	0	-	1	*
75+									
White	130,793	0	-	1	*	0	-	0	-
Black	3,252	0	-	0	-	0	-	0	-
Hispanic	16,654	1	*	0	-	0	-	0	-
Asian/Other	8,907	0	-	0	-	0	-	0	-
Subtotal	159,606	1	*	1	*	0	-	0	-
Total	**2,911,468**	**368**	**12.64**	**58**	**1.99**	**18**	**0.62**	**12**	**0.41**

*Rate not calculated on less than five incidents.
**Totals include 3 with an unspecified age.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 99/00; Population Estimates, SANDAG (1/4/2000).

Incidence and Rates of Assault by Age Group, Race/Ethnicity and Mechanism

	Pop	Unarmed		Gunshot		Stabbing		Other Assault	
		Incidence	Rate	Incidence	Rate	Incidence	Rate	Incidence	Rate
Under5									
White	101,861	2	*	0	-	0	-	1	*
Black	16,868	5	29.64	0	-	0	-	0	-
Hispanic	93,113	11	11.81	0	-	0	-	2	*
Asian/Other	22,715	1	*	0	-	0	-	0	-
Subtotal	234,557	19	8.10	0	-	0	-	3	*
5-9									
White	106,523	1	*	0	-	0	-	0	-
Black	16,770	0	-	0	-	0	-	1	*
Hispanic	78,573	0	-	0	-	0	-	0	-
Asian/Other	21,585	2	*	0	-	0	-	0	-
Subtotal	223,451	3	*	0	-	0	-	1	*
10-14									
White	102,134	3	*	0	-	0	-	1	*
Black	14,868	0	-	1	*	0	-	1	*
Hispanic	66,068	1	*	1	*	0	-	2	*
Asian/Other	21,500	2	*	1	*	0	-	2	*
Subtotal	204,570	6	2.93	3	*	0	-	6	2.93
15-19									
White	98,234	9	9.16	3	*	6	6.11	5	5.09
Black	14,537	7	48.15	5	34.39	2	*	0	-
Hispanic	58,880	14	23.78	11	18.68	23	39.06	8	13.59
Asian/Other	21,404	4	*	1	*	3	*	0	-
Subtotal	193,055	34	17.61	20	10.36	34	17.61	13	6.73
20-24									
White	123,564	13	10.52	2	*	10	8.09	3	*
Black	16,927	3	*	2	*	7	41.35	2	*
Hispanic	60,403	10	16.56	9	14.90	27	44.70	7	11.59
Asian/Other	22,847	4	*	1	*	1	*	0	-
Subtotal	223,741	30	13.41	14	6.26	45	20.11	12	5.36
25-34									
White	248,796	23	9.24	3	*	18	7.23	8	3.22
Black	29,878	3	*	5	16.73	5	16.73	1	*
Hispanic	118,827	16	13.46	14	11.78	25	21.04	9	7.57
Asian/Other	43,774	4	*	1	*	2	*	1	*
Subtotal	441,275	46	10.42	23	5.21	50	11.33	19	4.31
35-44									
White	296,971	21	7.07	4	*	16	5.39	12	4.04
Black	27,362	8	29.24	2	*	6	21.93	4	*
Hispanic	103,734	17	16.39	5	4.82	15	14.46	6	5.78
Asian/Other	43,828	2	*	3	*	2	*	4	*
Subtotal	471,895	48	10.17	14	2.97	39	8.26	26	5.51
45-54									
White	238,461	21	8.81	0	-	6	2.52	8	3.35
Black	18,198	2	*	0	-	4	*	3	*
Hispanic	67,624	5	7.39	0	-	4	*	1	*
Asian/Other	34,507	2	*	0	-	1	*	1	*
Subtotal	358,790	30	8.36	0	-	16	4.46	13	3.62
55-64									
White	157,195	4	*	0	-	0	-	3	*
Black	9,649	0	-	0	-	1	*	1	*
Hispanic	36,496	2	*	1	*	1	*	3	*
Asian/Other	21,813	0	-	0	-	0	-	1	*
Subtotal	225,153	6	2.66	1	*	2	*	8	3.55
65-74									
White	134,132	3	*	0	-	2	*	0	-
Black	5,242	0	-	0	-	0	-	0	-
Hispanic	22,005	0	-	0	-	0	-	2	*
Asian/Other	13,996	0	-	0	-	1	*	0	-
Subtotal	175,375	4	*	0	-	3	*	2	*
75+									
White	130,793	3	*	0	-	0	-	4	*
Black	3,252	0	-	0	-	0	-	0	-
Hispanic	16,654	2	*	0	-	0	-	0	-
Asian/Other	8,907	0	-	0	-	0	-	0	-
Subtotal	159,606	5	3.13	0	-	0	-	4	*
Total	**2,911,468**	**231**	**7.93**	**75**	**2.58**	**189**	**6.49**	**107**	**3.68**

*Rate not calculated on less than five incidents.
**Totals include 1 with an unspecified age.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 99/00; Population Estimates, SANDAG (1/4/2000).

Incidence and Rates of Suicide by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Pop	Incidence	Rate	Pop	Incidence	Rate	Pop	Incidence	Rate
5-9									
White	55,070	0	-	51,453	0	-	106,523	0	-
Black	8,549	0	-	8,221	0	-	16,770	0	-
Hispanic	40,945	1	*	37,628	0	-	78,573	1	*
Asian/Other	11,048	0	-	10,537	0	-	21,585	0	-
Subtotal	115,612	1	*	107,839	0	-	223,451	1	*
10-14									
White	52,334	1	*	49,800	0	-	102,134	1	*
Black	7,517	0	-	7,351	0	-	14,868	0	-
Hispanic	34,325	0	-	31,743	0	-	66,068	0	-
Asian/Other	10,944	0	-	10,556	0	-	21,500	0	-
Subtotal	105,120	1	*	99,450	0	-	204,570	1	*
15-19									
White	48,679	2	*	49,555	0	-	98,234	2	*
Black	7,968	0	-	6,569	0	-	14,537	0	-
Hispanic	30,947	2	*	27,933	0	-	58,880	2	*
Asian/Other	10,851	2	*	10,553	0	-	21,404	2	*
Subtotal	98,445	6	6.09	94,610	0	-	193,055	6	3.11
20-24									
White	71,179	12	16.86	52,385	0	-	123,564	12	9.71
Black	10,481	3	*	6,446	0	-	16,927	3	*
Hispanic	32,941	0	-	27,462	0	-	60,403	0	-
Asian/Other	12,092	0	-	10,755	0	-	22,847	0	-
Subtotal	126,693	15	11.84	97,048	0	-	223,741	15	6.70
25-34									
White	133,693	14	10.47	115,103	2	*	248,796	16	6.43
Black	16,211	0	-	13,667	1	*	29,878	1	*
Hispanic	64,301	5	7.78	54,526	2	*	118,827	7	5.89
Asian/Other	21,601	2	*	22,173	0	-	43,774	2	*
Unknown	---	1	---	---	0	---	---	1	---
Subtotal	235,806	22	9.33	205,469	5	2.43	441,275	27	6.12
35-44									
White	154,051	29	18.82	142,920	3	*	296,971	32	10.78
Black	14,627	1	*	12,735	0	-	27,362	1	*
Hispanic	54,589	2	*	49,145	0	-	103,734	2	*
Asian/Other	19,995	3	*	23,833	0	-	43,828	3	*
Subtotal	243,262	35	14.39	228,633	3	*	471,895	38	8.05
45-54									
White	123,528	20	16.19	114,933	3	*	238,461	23	9.65
Black	9,371	1	*	8,827	0	-	18,198	1	*
Hispanic	33,866	1	*	33,758	1	*	67,624	2	*
Asian/Other	15,424	0	-	19,083	0	-	34,507	0	-
Subtotal	182,189	22	12.08	176,601	4	*	358,790	26	7.25
55-64									
White	78,101	9	11.52	79,094	3	*	157,195	12	7.63
Black	4,733	0	-	4,916	0	-	9,649	0	-
Hispanic	17,335	0	-	19,161	0	-	36,496	0	-
Asian/Other	9,522	0	-	12,291	1	*	21,813	1	*
Subtotal	109,691	9	8.20	115,462	4	*	225,153	13	5.77
65-74									
White	62,699	14	22.33	71,433	2	*	134,132	16	11.93
Black	2,430	0	-	2,812	0	-	5,242	0	-
Hispanic	9,662	1	*	12,343	0	-	22,005	1	*
Asian/Other	5,465	0	-	8,531	1	*	13,996	1	*
Subtotal	80,256	15	18.69	95,119	3	*	175,375	18	10.26
75+									
White	51,273	30	58.51	79,520	4	*	130,793	34	26.00
Black	1,254	0	-	1,998	0	-	3,252	0	-
Hispanic	6,870	0	-	9,784	0	-	16,654	0	-
Asian/Other	3,538	0	-	5,369	0	-	8,907	0	-
Subtotal	62,935	30	47.67	96,671	4	*	159,606	34	21.30
Total	**1,478,547**	**156**	**10.55**	**1,432,921**	**23**	**1.61**	**2,911,468**	**179**	**6.15**

* Rate not calculated on less than five incidents.

Note: No suicides were reported in children under five years of age.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 99/00; Population Estimates, SANDAG

Incidence and Rates of Self Inflicted Injury by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Pop	Incidence	Rate	Pop	Incidence	Rate	Pop	Incidence	Rate
5-9									
White	55,070	1	*	51,453	0	-	106,523	1	*
Black	8,549	0	-	8,221	0	-	16,770	0	-
Hispanic	40,945	0	-	37,628	0	-	78,573	0	-
Asian/Other	11,048	0	-	10,537	0	-	21,585	0	-
Subtotal	115,612	1	*	107,839	0	-	223,451	1	*
10-14				10-14			10-14		
White	52,334	1	*	49,800	1	*	102,134	2	*
Black	7,517	0	-	7,351	0	-	14,868	0	-
Hispanic	34,325	0	-	31,743	0	-	66,068	0	-
Asian/Other	10,944	0	-	10,556	0	-	21,500	0	-
Subtotal	105,120	1	*	99,450	1	*	204,570	2	*
15-19				15-19			15-19		
White	48,679	1	*	49,555	0	-	98,234	1	*
Black	7,968	0	-	6,569	0	-	14,537	0	-
Hispanic	30,947	4	*	27,933	0	-	58,880	4	*
Asian/Other	10,851	0	-	10,553	0	-	21,404	0	-
Subtotal	98,445	5	5.08	94,610	0	-	193,055	5	2.59
20-24				20-24			20-24		
White	71,179	6	8.43	52,385	0	-	123,564	6	4.86
Black	10,481	1	*	6,446	0	-	16,927	1	*
Hispanic	32,941	3	*	27,462	1	*	60,403	4	*
Asian/Other	12,092	0	-	10,755	0	-	22,847	0	-
Subtotal	126,693	10	7.89	97,048	1	*	223,741	11	4.92
25-34				25-34			25-34		
White	133,693	6	4.49	115,103	2	*	248,796	8	3.22
Black	16,211	1	*	13,667	0	-	29,878	1	*
Hispanic	64,301	5	7.78	54,526	2	*	118,827	7	5.89
Asian/Other	21,601	0	-	22,173	0	-	43,774	0	-
Unknown	---	3	---	---	0	---	---	3	---
Subtotal	235,806	15	6.36	205,469	4	*	441,275	19	4.31
35-44				35-44			35-44		
White	154,051	10	6.49	142,920	3	*	296,971	13	4.38
Black	14,627	0	-	12,735	0	-	27,362	0	-
Hispanic	54,589	3	*	49,145	3	*	103,734	6	5.78
Asian/Other	19,995	0	-	23,833	0	-	43,828	0	-
Subtotal	243,262	13	5.34	228,633	6	2.62	471,895	19	4.03
45-54				45-54			45-54		
White	123,528	5	4.05	114,933	4	*	238,461	9	3.77
Black	9,371	1	*	8,827	0	-	18,198	1	*
Hispanic	33,866	0	-	33,758	0	-	67,624	0	-
Asian/Other	15,424	0	-	19,083	0	-	34,507	0	-
Subtotal	182,189	6	3.29	176,601	4	*	358,790	10	2.79
55-64				55-64			55-64		
White	78,101	3	*	79,094	1	*	157,195	4	*
Black	4,733	0	-	4,916	0	-	9,649	0	-
Hispanic	17,335	0	-	19,161	1	*	36,496	1	*
Asian/Other	9,522	0	-	12,291	0	-	21,813	0	-
Subtotal	109,691	3	*	115,462	2	*	225,153	5	2.22
65-74				65-74			65-74		
White	62,699	3	*	71,433	0	-	134,132	3	*
Black	2,430	0	-	2,812	0	-	5,242	0	-
Hispanic	9,662	0	-	12,343	0	-	22,005	0	-
Asian/Other	5,465	0	-	8,531	1	*	13,996	1	*
Subtotal	80,256	3	*	95,119	1	*	175,375	4	*
75+				75+			75+		
White	51,273	1	*	79,520	1	*	130,793	2	*
Black	1,254	0	-	1,998	0	-	3,252	0	-
Hispanic	6,870	1	*	9,784	0	-	16,654	1	*
Asian/Other	3,538	0	-	5,369	0	-	8,907	0	-
Subtotal	62,935	2	*	96,671	1	*	159,606	3	*
Total	**1,478,547**	**59**	**3.99**	**1,432,921**	**20**	**1.40**	**2,911,468**	**79**	**2.71**

* Rate not calculated on less than five incidents.

Note: no self-inflicted injuries were reported in children under five years of age.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 99/00; Population Estimates, SANDAG

Who is at Greatest Risk of Transportation Related Injury and Death (Rates = Incidence per 100,000 Population)

- **Motor Vehicle Occupant Death:** Hispanic males aged 20-24 (39.46) and 15-19 (38.78) were at highest risk of dying in a motor vehicle occupant crash.

- **Motor Vehicle Occupant Injury:** Hispanic males aged 20-24 (200.36) and 15-19 (151.87) were at highest risk of sustaining a serious due to a motor vehicle occupant crash. Among females, Hispanics and Asian/Others 20-24 years of age had the highest rates (145.66 and 148.77, respectively). These rates should be interpreted with caution because of low incidence.

- **Motorcycle Crash Death:** Incidence was too low to calculate all age, gender, and race/ethnicity breakdowns. **No Table Appears.**

- **Motorcycle Crash Injury:** White males aged 15-19 (43.14), 25-34 (37.40), and 20-24 (35.12) were at greatest risk of a severe injury due to a motorcycle crash.

- **Pedalcycle Crash Death:** Incidence was too low to calculate all age, gender, and race/ethnicity breakdowns. **No Table Appears.**

- **Pedalcycle Crash Injury:** Black males aged 5-9 (58.49), and White males aged 10-14 (43.95) were at highest risk of severe injury following a pedalcycle crash.

- **Pedestrian Death:** Due to low incidence of pedestrian deaths, rates could only be calculated for Hispanic males aged 20-24 (21.25) and White males aged 35-44 (7.79). **No Table Appears.**

- **Pedestrian Injury:** Black males aged 5-9 (105.28) and 45-54 (96.04) were at highest risk of traumatic injuries as pedestrians.

Incidence and Rates of MVO Death by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Pop	Incidence	Rate	Pop	Incidence	Rate	Pop	Incidence	Rate
Under5				0-4			0-4		
White	52,264	0	-	49,597	0	-	101,861	0	-
Black	8,624	0	-	8,244	0	-	16,868	0	-
Hispanic	45,907	0	-	47,206	0	-	93,113	0	-
Asian/Other	11,743	1	*	10,972	0	-	22,715	1	*
Unknown	---	0	---	---	1	---	---	1	---
Subtotal	118,538	1	*	116,019	1	*	234,557	2	*
5-9									
White	55,070	0	-	51,453	1	*	106,523	1	*
Black	8,549	0	-	8,221	0	-	16,770	0	-
Hispanic	40,945	0	-	37,628	0	-	78,573	0	-
Asian/Other	11,048	0	-	10,537	0	-	21,585	0	-
Subtotal	115,612	0	-	107,839	1	*	223,451	1	*
10-14									
White	52,334	0	-	49,800	0	-	102,134	0	-
Black	7,517	0	-	7,351	0	-	14,868	0	-
Hispanic	34,325	0	-	31,743	0	-	66,068	0	-
Asian/Other	10,944	0	-	10,556	0	-	21,500	0	-
Subtotal	105,120	0	-	99,450	0	-	204,570	0	-
15-19									
White	48,679	10	20.54	49,555	10	20.18	98,234	20	20.36
Black	7,968	1	*	6,569	0	-	14,537	1	*
Hispanic	30,947	12	38.78	27,933	3	*	58,880	15	25.48
Asian/Other	10,851	0	-	10,553	0	-	21,404	0	-
Subtotal	98,445	23	23.36	94,610	13	13.74	193,055	36	18.65
20-24									
White	71,179	7	9.83	52,385	3	*	123,564	10	8.09
Black	10,481	2	*	6,446	0	-	16,927	2	*
Hispanic	32,941	13	39.46	27,462	0	-	60,403	13	21.52
Asian/Other	12,092	0	-	10,755	1	*	22,847	1	*
Unknown	---	2	---	---	0	---	---	2	---
Subtotal	126,693	24	18.94	97,048	4	*	223,741	28	12.51
25-34									
White	133,693	10	7.48	115,103	3	*	248,796	13	5.23
Black	16,211	1	*	13,667	1	*	29,878	2	*
Hispanic	64,301	5	7.78	54,526	0	-	118,827	5	4.21
Asian/Other	21,601	1	*	22,173	0	-	43,774	1	*
Subtotal	235,806	17	7.21	205,469	4	*	441,275	21	4.76
35-44									
White	154,051	13	8.44	142,920	6	4.20	296,971	19	6.40
Black	14,627	0	-	12,735	1	*	27,362	1	*
Hispanic	54,589	11	20.15	49,145	0	-	103,734	11	10.60
Asian/Other	19,995	0	-	23,833	0	-	43,828	0	-
Subtotal	243,262	24	9.87	228,633	7	3.06	471,895	31	6.57
45-54									
White	123,528	7	5.67	114,933	3	*	238,461	10	4.19
Black	9,371	0	-	8,827	0	-	18,198	0	-
Hispanic	33,866	4	*	33,758	0	-	67,624	4	*
Asian/Other	15,424	0	-	19,083	1	*	34,507	1	*
Subtotal	182,189	11	6.04	176,601	4	*	358,790	15	4.18
55-64									
White	78,101	6	7.68	79,094	0	-	157,195	6	3.82
Black	4,733	0	-	4,916	1	*	9,649	1	*
Hispanic	17,335	2	*	19,161	1	*	36,496	3	*
Asian/Other	9,522	1	*	12,291	0	-	21,813	1	*
Subtotal	109,691	9	8.20	115,462	2	*	225,153	11	4.89
65-74									
White	62,699	2	*	71,433	4	*	134,132	6	4.47
Black	2,430	1	*	2,812	0	-	5,242	1	*
Hispanic	9,662	2	*	12,343	1	*	22,005	3	*
Asian/Other	5,465	1	*	8,531	0	-	13,996	1	*
Unknown	---	1	---	---	0	---	---	1	---
Subtotal	80,256	7	8.72	95,119	5	5.26	175,375	12	6.84
75+									
White	51,273	11	21.45	79,520	5	6.29	130,793	16	12.23
Black	1,254	0	-	1,998	0	-	3,252	0	-
Hispanic	6,870	0	-	9,784	0	-	16,654	0	-
Asian/Other	3,538	0	-	5,369	0	-	8,907	0	-
Subtotal	62,935	11	17.48	96,671	5	5.17	159,606	16	10.02
Total	**1,478,547**	**127**	**8.59**	**1,432,921**	**46**	**3.21**	**2,911,468**	**173**	**5.94**

* Rate not calculated on less than five incidents.

** Totals include 1 male with an unspecified age.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 99/00; Population Estimates, SANDAG

Incidence and Rates of MVO Injury by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Pop	Incidence	Rate	Pop	Incidence	Rate	Pop	Incidence	Rate
Under5									
White	52,264	4	*	49,597	7	14.11	101,861	11	10.80
Black	8,624	0	-	8,244	1	*	16,868	1	*
Hispanic	45,907	15	32.67	47,206	8	16.95	93,113	23	24.70
Asian/Other	11,743	1	*	10,972	1	*	22,715	2	*
Unknown	---	1	---	---	1	---	---	1	---
Subtotal	118,538	21	17.72	116,019	18	15.51	234,557	39	16.63
5-9									
White	55,070	10	18.16	51,453	3	*	106,523	13	12.20
Black	8,549	1	*	8,221	2	*	16,770	3	*
Hispanic	40,945	17	41.52	37,628	11	29.23	78,573	28	35.64
Asian/Other	11,048	5	45.26	10,537	3	*	21,585	8	37.06
Subtotal	115,612	33	28.54	107,839	19	17.62	223,451	52	23.27
10-14									
White	52,334	4	*	49,800	8	16.06	102,134	12	11.75
Black	7,517	2	*	7,351	1	*	14,868	3	*
Hispanic	34,325	9	26.22	31,743	14	44.10	66,068	23	34.81
Asian/Other	10,944	0	-	10,556	2	*	21,500	2	*
Subtotal	105,120	15	14.27	99,450	25	25.14	204,570	40	19.55
15-19									
White	48,679	46	94.50	49,555	45	90.81	98,234	91	92.64
Black	7,968	2	*	6,569	8	121.78	14,537	10	68.79
Hispanic	30,947	47	151.87	27,933	26	93.08	58,880	73	123.98
Asian/Other	10,851	8	73.73	10,553	8	75.81	21,404	16	74.75
Unknown	---	3	---	---	5	---	---	8	---
Subtotal	98,445	106	107.67	94,610	92	97.24	193,055	198	102.56
20-24									
White	71,179	55	77.27	52,385	48	91.63	123,564	103	83.36
Black	10,481	6	57.25	6,446	4	*	16,927	10	59.08
Hispanic	32,941	66	200.36	27,462	40	145.66	60,403	106	175.49
Asian/Other	12,092	18	148.86	10,755	16	148.77	22,847	34	148.82
Unknown	---	0	---	---	1	---	---	1	---
Subtotal	126,693	145	114.45	97,048	109	112.32	223,741	254	113.52
25-34									
White	133,693	84	62.83	115,103	56	48.65	248,796	140	56.27
Black	16,211	13	80.19	13,667	9	65.85	29,878	22	73.63
Hispanic	64,301	59	91.76	54,526	41	75.19	118,827	100	84.16
Asian/Other	21,601	18	83.33	22,173	15	67.65	43,774	33	75.39
Unknown	---	5	---	---	5	---	---	10	---
Subtotal	235,806	179	75.91	205,469	126	61.32	441,275	305	69.12
35-44									
White	154,051	61	39.60	142,920	61	42.68	296,971	122	41.08
Black	14,627	10	68.37	12,735	6	47.11	27,362	16	58.48
Hispanic	54,589	34	62.28	49,145	33	67.15	103,734	67	64.59
Asian/Other	19,995	10	50.01	23,833	9	37.76	43,828	19	43.35
Unknown	---	4	---	---	1	---	---	5	---
Subtotal	243,262	119	48.92	228,633	110	48.11	471,895	229	48.53
45-54									
White	123,528	59	47.76	114,933	46	40.02	238,461	105	44.03
Black	9,371	2	*	8,827	4	*	18,198	6	32.97
Hispanic	33,866	21	62.01	33,758	22	65.17	67,624	43	63.59
Asian/Other	15,424	12	77.80	19,083	10	52.40	34,507	22	63.76
Unknown	---	2	---	---	0	---	---	2	---
Subtotal	182,189	96	52.69	176,601	82	46.43	358,790	178	49.61
55-64									
White	78,101	24	30.73	79,094	30	37.93	157,195	54	34.35
Black	4,733	3	*	4,916	2	*	9,649	5	51.82
Hispanic	17,335	12	69.22	19,161	12	62.63	36,496	24	65.76
Asian/Other	9,522	9	94.52	12,291	8	65.09	21,813	17	77.94
Unknown	---	2	---	---	0	---	---	2	---
Subtotal	109,691	50	45.58	115,462	52	45.04	225,153	102	45.30
65-74									
White	62,699	24	38.28	71,433	37	51.80	134,132	61	45.48
Black	2,430	2	*	2,812	2	*	5,242	4	*
Hispanic	9,662	10	103.50	12,343	3	*	22,005	13	59.08
Asian/Other	5,465	3	*	8,531	11	128.94	13,996	14	100.03
Unknown	---	0	---	---	2	---	---	2	---
Subtotal	80,256	39	48.59	95,119	55	57.82	175,375	94	53.60
75+									
White	51,273	43	83.86	79,520	48	60.36	130,793	91	69.58
Black	1,254	0	-	1,998	2	*	3,252	2	*
Hispanic	6,870	3	*	9,784	1	*	16,654	4	*
Asian/Other	3,538	2	*	5,369	5	93.13	8,907	7	78.59
Unknown	---	1	---	---	0	---	---	1	---
Subtotal	62,935	49	77.86	96,671	56	57.93	159,606	105	65.79
Total	**1,478,547**	**852**	**57.62**	**1,432,921**	**744**	**51.92**	**2,911,468**	**1596**	**54.82**

* Rate not calculated on less than five incidents

** Totals include 1 male and 1 female with an unspecified age.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 99/00; Population Estimates, SANDAG

Incidence and Rates of Motorcycle Injury by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Pop	Incidence	Rate	Pop	Incidence	Rate	Pop	Incidence	Rate
Under5									
White	52,264	1	*	49,597	0	-	101,861	1	*
Black	8,624	0	-	8,244	0	-	16,868	0	-
Hispanic	45,907	0	-	47,206	0	-	93,113	0	-
Asian/Other	11,743	0	-	10,972	0	-	22,715	0	-
Subtotal	118,538	1	*	116,019	0	-	234,557	1	*
5-9									
White	55,070	5	9.08	51,453	0	-	106,523	5	4.69
Black	8,549	0	-	8,221	0	-	16,770	0	-
Hispanic	40,945	0	-	37,628	0	-	78,573	0	-
Asian/Other	11,048	1	*	10,537	0	-	21,585	1	*
Subtotal	115,612	6	5.19	107,839	0	-	223,451	6	2.69
10-14									
White	52,334	7	13.38	49,800	1	*	102,134	8	7.83
Black	7,517	0	-	7,351	0	-	14,868	0	-
Hispanic	34,325	1	*	31,743	0	-	66,068	1	*
Asian/Other	10,944	1	*	10,556	0	-	21,500	1	*
Subtotal	105,120	9	8.56	99,450	1	*	204,570	10	4.89
15-19									
White	48,679	21	43.14	49,555	1	*	98,234	22	22.40
Black	7,968	2	*	6,569	0	-	14,537	2	*
Hispanic	30,947	4	*	27,933	1	*	58,880	5	8.49
Asian/Other	10,851	0	-	10,553	1	*	21,404	1	*
Unknown		1			0	-		1	*
Subtotal	98,445	28	28.44	94,610	3	*	193,055	31	16.06
20-24									
White	71,179	25	35.12	52,385	1	*	123,564	26	21.04
Black	10,481	4	*	6,446	1	*	16,927	5	29.54
Hispanic	32,941	8	24.29	27,462	0	-	60,403	8	13.24
Asian/Other	12,092	0	-	10,755	0	-	22,847	0	-
Unknown		2			0	-		2	*
Subtotal	126,693	39	30.78	97,048	2	*	223,741	41	18.32
25-34									
White	133,693	50	37.40	115,103	7	6.08	248,796	57	22.91
Black	16,211	2	*	13,667	1	*	29,878	3	*
Hispanic	64,301	14	21.77	54,526	0	-	118,827	14	21.77
Asian/Other	21,601	1	*	22,173	0	-	43,774	1	*
Subtotal	235,806	67	28.41	205,469	8	3.39	441,275	75	31.81
35-44									
White	154,051	38	24.67	142,920	5	3.50	296,971	43	14.48
Black	14,627	2	*	12,735	1	*	27,362	3	*
Hispanic	54,589	4	*	49,145	0	-	103,734	4	*
Asian/Other	19,995	2	*	23,833	0	-	43,828	2	*
Unknown	---	1	---	---	0	---	---	1	---
Subtotal	243,262	47	19.32	228,633	6	2.62	471,895	53	11.23
45-54									
White	123,528	29	23.48	114,933	2	*	238,461	31	13.00
Black	9,371	0	-	8,827	0	-	18,198	0	-
Hispanic	33,866	4	*	33,758	0	-	67,624	4	*
Asian/Other	15,424	0	-	19,083	1	*	34,507	1	*
Subtotal	182,189	33	18.11	176,601	3	*	358,790	36	10.03
55-64									
White	78,101	16	20.49	79,094	4	*	157,195	20	12.72
Black	4,733	0	-	4,916	0	-	9,649	0	-
Hispanic	17,335	1	*	19,161	0	-	36,496	1	*
Asian/Other	9,522	0	-	12,291	0	-	21,813	0	-
Subtotal	109,691	17	15.50	115,462	4	*	225,153	21	9.33
65-74									
White	62,699	4	*	71,433	1	*	134,132	5	3.73
Black	2,430	0	-	2,812	0	-	5,242	0	-
Hispanic	9,662	0	-	12,343	0	-	22,005	0	-
Asian/Other	5,465	0	-	8,531	0	-	13,996	0	-
Subtotal	80,256	4	*	95,119	1	*	175,375	5	2.85
75+									
White	51,273	1	*	79,520	0	-	130,793	1	*
Black	1,254	0	-	1,998	0	-	3,252	0	-
Hispanic	6,870	0	-	9,784	0	-	16,654	0	-
Asian/Other	3,538	0	-	5,369	0	-	8,907	0	-
Subtotal	62,935	1	*	96,671	0	-	159,606	1	*
Total	**1,478,547**	**252**	**17.04**	**1,432,921**	**28**	**1.95**	**2,911,468**	**280**	**9.62**

* Rate not calculated on less than five incidents.
Totals include 1 male with an unspecified age.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 99/00; Population Estimates, SANDAG

Incidence and Rates of Pedalcycle Injury by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Pop	Incidence	Rate	Pop	Incidence	Rate	Pop	Incidence	Rate
Under5									
White	52,264	1	*	49,597	1	*	101,861	2	*
Black	8,624	1	*	8,244	0	-	16,868	1	*
Hispanic	45,907	5	10.89	47,206	1	*	93,113	6	6.44
Asian/Other	11,743	0	-	10,972	0	-	22,715	0	-
Subtotal	118,538	7	5.91	116,019	2	*	234,557	9	3.84
5-9									
White	55,070	16	29.05	51,453	5	9.72	106,523	21	19.71
Black	8,549	5	58.49	8,221	0	-	16,770	5	29.82
Hispanic	40,945	9	21.98	37,628	6	15.95	78,573	15	19.09
Asian/Other	11,048	3	*	10,537	1	*	21,585	4	*
Unknown	---	1	---	---	0	---	---	1	---
Subtotal	115,612	34	29.41	107,839	12	11.13	223,451	46	20.59
10-14									
White	52,334	23	43.95	49,800	5	10.04	102,134	28	27.41
Black	7,517	2	*	7,351	0	-	14,868	2	*
Hispanic	34,325	8	23.31	31,743	2	*	66,068	10	15.14
Asian/Other	10,944	3	*	10,556	0	-	21,500	3	*
Unknown	---	1	---	---	0	---	---	1	---
Subtotal	105,120	37	35.20	99,450	7	7.04	204,570	44	21.51
15-19									
White	48,679	13	26.71	49,555	0	-	98,234	13	13.23
Black	7,968	0	-	6,569	1	*	14,537	1	*
Hispanic	30,947	5	16.16	27,933	1	*	58,880	6	10.19
Asian/Other	10,851	1	*	10,553	1	*	21,404	2	*
Unknown	---	1	---	---	0	---	---	1	---
Subtotal	98,445	20	20.32	94,610	3	*	193,055	23	11.91
20-24									
White	71,179	5	7.02	52,385	2	*	123,564	7	5.67
Black	10,481	0	-	6,446	0	-	16,927	0	-
Hispanic	32,941	3	*	27,462	0	-	60,403	3	*
Asian/Other	12,092	1	*	10,755	0	-	22,847	1	*
Subtotal	126,693	9	7.10	97,048	2	*	223,741	11	4.92
25-34									
White	133,693	14	10.47	115,103	6	5.21	248,796	20	8.04
Black	16,211	2	*	13,667	0	-	29,878	2	*
Hispanic	64,301	7	10.89	54,526	1	*	118,827	8	6.73
Asian/Other	21,601	2	*	22,173	2	*	43,774	4	*
Unknown	---	1	---	---	0	---	---	1	---
Subtotal	235,806	26	11.03	205,469	9	4.38	441,275	35	7.93
35-44									
White	154,051	14	9.09	142,920	3	*	296,971	17	5.72
Black	14,627	3	*	12,735	0	-	27,362	3	*
Hispanic	54,589	6	10.99	49,145	1	*	103,734	7	6.75
Asian/Other	19,995	2	*	23,833	1	*	43,828	3	*
Subtotal	243,262	25	10.28	228,633	5	2.19	471,895	30	6.36
45-54									
White	123,528	18	14.57	114,933	5	4.35	238,461	23	9.65
Black	9,371	0	-	8,827	0	-	18,198	0	-
Hispanic	33,866	2	*	33,758	0	-	67,624	2	*
Asian/Other	15,424	3	*	19,083	1	*	34,507	4	*
Unknown	---	1	---	---	0	---	---	1	---
Subtotal	182,189	24	13.17	176,601	6	3.40	358,790	30	8.36
55-64									
White	78,101	6	7.68	79,094	1	*	157,195	7	4.45
Black	4,733	0	-	4,916	0	-	9,649	0	-
Hispanic	17,335	2	*	19,161	0	-	36,496	2	*
Asian/Other	9,522	1	*	12,291	0	-	21,813	1	*
Unknown	---	1	---	---	0	---	---	1	---
Subtotal	109,691	10	9.12	115,462	1	*	225,153	11	4.89
65-74									
White	62,699	3	*	71,433	0	-	134,132	3	*
Black	2,430	0	-	2,812	0	-	5,242	0	-
Hispanic	9,662	0	-	12,343	0	-	22,005	0	-
Asian/Other	5,465	0	-	8,531	0	-	13,996	0	-
Subtotal	80,256	3	*	95,119	0	-	175,375	3	*
75+									
White	51,273	2	*	79,520	1	*	130,793	3	*
Black	1,254	0	-	1,998	0	-	3,252	0	-
Hispanic	6,870	1	*	9,784	0	-	16,654	1	*
Asian/Other	3,538	1	*	5,369	0	-	8,907	1	*
Subtotal	62,935	4	*	96,671	1	*	159,606	5	3.13
Total	**1,478,547**	**199**	**13.46**	**1,432,921**	**48**	**3.35**	**2,911,468**	**247**	**8.48**

* Rate not calculated on less than five incidents.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 99/00; Population Estimates, SANDAG

Incidence and Rates of Pedestrian Injury by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Pop	Incidence	Rate	Pop	Incidence	Rate	Pop	Incidence	Rate
Under5									
White	52,264	6	11.48	49,597	2	*	101,861	8	7.85
Black	8,624	4	*	8,244	1	*	16,868	5	29.64
Hispanic	45,907	15	32.67	47,206	9	19.07	93,113	24	25.78
Asian/Other	11,743	2	*	10,972	2	*	22,715	4	*
Subtotal	118,538	27	22.78	116,019	14	12.07	234,557	41	17.48
5-9									
White	55,070	6	10.90	51,453	1	*	106,523	7	6.57
Black	8,549	9	105.28	8,221	4	*	16,770	13	77.52
Hispanic	40,945	10	24.42	37,628	6	15.95	78,573	16	20.36
Asian/Other	11,048	4	*	10,537	0	-	21,585	4	*
Unknown	---	1	---	---	0	---	---	1	---
Subtotal	115,612	30	25.95	107,839	11	10.20	223,451	41	18.35
10-14									
White	52,334	6	11.46	49,800	3	*	102,134	9	8.81
Black	7,517	2	*	7,351	2	*	14,868	4	*
Hispanic	34,325	4	*	31,743	2	*	66,068	6	9.08
Asian/Other	10,944	2	*	10,556	1	*	21,500	3	*
Subtotal	105,120	14	13.32	99,450	8	8.04	204,570	22	10.75
15-19									
White	48,679	8	16.43	49,555	1	*	98,234	9	9.16
Black	7,968	1	*	6,569	1	*	14,537	2	*
Hispanic	30,947	5	16.16	27,933	2	*	58,880	7	11.89
Asian/Other	10,851	0	-	10,553	0	-	21,404	0	-
Unknown	---	1	---	---	1	---	---	2	---
Subtotal	98,445	15	15.24	94,610	5	5.28	193,055	20	10.36
20-24									
White	71,179	7	9.83	52,385	5	9.54	123,564	12	9.71
Black	10,481	0	-	6,446	1	*	16,927	1	*
Hispanic	32,941	9	27.32	27,462	3	*	60,403	12	19.87
Asian/Other	12,092	3	*	10,755	1	*	22,847	4	*
Unknown	---	0	---	---	1	---	---	1	---
Subtotal	126,693	19	15.00	97,048	11	11.33	223,741	30	13.41
25-34									
White	133,693	12	8.98	115,103	8	6.95	248,796	20	8.04
Black	16,211	5	30.84	13,667	1	*	29,878	6	20.08
Hispanic	64,301	4	*	54,526	8	14.67	118,827	12	10.10
Asian/Other	21,601	0	-	22,173	1	*	43,774	1	*
Subtotal	235,806	21	8.91	205,469	18	8.76	441,275	39	8.84
35-44									
White	154,051	18	11.68	142,920	10	7.00	296,971	28	9.43
Black	14,627	2	*	12,735	1	*	27,362	3	*
Hispanic	54,589	7	12.82	49,145	12	24.42	103,734	19	18.32
Asian/Other	19,995	2	*	23,833	0	-	43,828	2	*
Subtotal	243,262	29	11.92	228,633	23	10.06	471,895	52	11.02
45-54									
White	123,528	16	12.95	114,933	3	*	238,461	19	7.97
Black	9,371	9	96.04	8,827	1	*	18,198	10	54.95
Hispanic	33,866	9	26.58	33,758	3	*	67,624	12	17.75
Asian/Other	15,424	2	*	19,083	2	*	34,507	4	*
Subtotal	182,189	36	19.76	176,601	9	5.10	358,790	45	12.54
55-64									
White	78,101	6	7.68	79,094	11	13.91	157,195	17	10.81
Black	4,733	2	*	4,916	1	*	9,649	3	*
Hispanic	17,335	1	*	19,161	1	*	36,496	2	*
Asian/Other	9,522	0	-	12,291	3	*	21,813	3	*
Subtotal	109,691	9	8.20	115,462	16	13.86	225,153	25	11.10
65-74									
White	62,699	4	*	71,433	4	*	134,132	8	5.96
Black	2,430	0	-	2,812	0	-	5,242	0	-
Hispanic	9,662	4	*	12,343	4	*	22,005	8	36.36
Asian/Other	5,465	1	*	8,531	3	*	13,996	4	*
Subtotal	80,256	9	11.21	95,119	11	11.56	175,375	20	11.40
75+									
White	51,273	4	*	79,520	9	11.32	130,793	13	9.94
Black	1,254	0	-	1,998	0	-	3,252	0	-
Hispanic	6,870	2	*	9,784	3	*	16,654	5	30.02
Asian/Other	3,538	1	*	5,369	1	*	8,907	2	*
Unknown	---	1	---	---	0	---	---	1	---
Subtotal	62,935	8	12.71	96,671	13	13.45	159,606	21	13.16
Total	**1,478,547**	**217**	**14.68**	**1,432,921**	**139**	**9.70**	**2,911,468**	**356**	**12.23**

* Rate not calculated on less than five incidents.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 99/00; Population Estimates, SANDAG

Who is at Greatest Risk of Other Unintentional Death and Injury (Rates = Incidence per 100,000 Population)

- **Deaths due to falls:** Due to the low incidence of deaths due to falls, rates could only be calculated for White males aged 35-44 (3.25), 45-54 (12.14), 55-64 (6.40), 65-74 (19.14), 75+ (87.77), and for White females aged 65-74 (11.20) and 75 and older (42.76). **No table appears.**

- **Severe Injuries due to Falls:** In the over 74 year age group, White males (177.48), Asian/Other females (130.38), White females (114.44), and Hispanic males (101.89) had the highest rates.

- **Death due to Sports and Recreation:** Incidence was too low to calculate all age, gender, and race/ethnicity breakdowns. **No Table Appears.**

- **Severe Injury due to Sports and Recreation:** White, Hispanic, and Asian/Other males in the 10-14 year age group (68.79, 46.61, and 45.69, respectively), 15-19 year old White males (45.19), and 20-24 year old Asian/Other males (49.62) had the highest rates of Sports/Recreation injury.

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Incidence and Rates of Fall Injury by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Pop	Incidence	Rate	Pop	Incidence	Rate	Pop	Incidence	Rate
Under5									
White	52,264	29	55.49	49,597	16	32.26	101,861	45	44.18
Black	8,624	6	69.57	8,244	2	*	16,868	8	47.43
Hispanic	45,907	32	69.71	47,206	18	38.13	93,113	50	53.70
Asian/Other	11,743	9	76.64	10,972	6	54.68	22,715	15	66.04
Unknown	---	0	---	---	1	---	---	1	---
Subtotal	118,538	76	64.11	116,019	43	37.06	234,557	119	50.73
5-9						-			-
White	55,070	10	18.16	51,453	8	15.55	106,523	18	16.90
Black	8,549	1	*	8,221	1	*	16,770	2	*
Hispanic	40,945	11	26.87	37,628	3	*	78,573	14	17.82
Asian/Other	11,048	5	45.26	10,537	1	*	21,585	6	27.80
Subtotal	115,612	27	23.35	107,839	13	12.06	223,451	40	17.90
10-14						-			-
White	52,334	17	32.48	49,800	8	16.06	102,134	25	24.48
Black	7,517	3	*	7,351	0	-	14,868	3	*
Hispanic	34,325	6	17.48	31,743	4	*	66,068	10	15.14
Asian/Other	10,944	3	*	10,556	1	*	21,500	4	*
Unknown	---	0	---	---	1	---	---	1	---
Subtotal	105,120	29	27.59	99,450	14	14.08	204,570	43	21.02
15-19						-			-
White	48,679	23	47.25	49,555	2	*	98,234	25	25.45
Black	7,968		-	6,569		-	14,537		-
Hispanic	30,947	2	*	27,933	1	*	58,880	3	*
Asian/Other	10,851	1	*	10,553	2	*	21,404	3	*
Unknown	---	1	---	---	0	---	---	1	---
Subtotal	98,445	27	27.43	94,610	5	5.28	193,055	32	16.58
20-24						-			-
White	71,179	20	28.10	52,385	4	*	123,564	24	19.42
Black	10,481	1	*	6,446	0	-	16,927	1	*
Hispanic	32,941	9	27.32	27,462	4	*	60,403	13	21.52
Asian/Other	12,092	0	-	10,755	3	*	22,847	3	*
Subtotal	126,693	30	23.68	97,048	11	11.33	223,741	41	18.32
25-34						-			-
White	133,693	39	29.17	115,103	14	12.16	248,796	53	21.30
Black	16,211	4	*	13,667	0	-	29,878	4	*
Hispanic	64,301	39	60.65	54,526	6	11.00	118,827	45	37.87
Asian/Other	21,601	1	*	22,173	1	*	43,774	2	*
Subtotal	235,806	83	35.20	205,469	21	10.22	441,275	104	23.57
35-44						-			-
White	154,051	64	41.54	142,920	12	8.40	296,971	76	25.59
Black	14,627	11	75.20	12,735	2	*	27,362	13	47.51
Hispanic	54,589	34	62.28	49,145	6	12.21	103,734	40	38.56
Asian/Other	19,995	7	35.01	23,833	1	*	43,828	8	18.25
Unknown	---	2	---	---	0	---	---	2	---
Subtotal	243,262	118	48.51	228,633	21	9.19	471,895	139	29.46
45-54						-			-
White	123,528	55	44.52	114,933	26	22.62	238,461	81	33.97
Black	9,371	3	*	8,827	1	*	18,198	4	*
Hispanic	33,866	24	70.87	33,758	3	*	67,624	27	39.93
Asian/Other	15,424	0	-	19,083	1	*	34,507	1	*
Unknown	---	2	---	---	1	---	---	3	---
Subtotal	182,189	84	46.11	176,601	32	18.12	358,790	116	32.33
55-64						-			-
White	78,101	48	61.46	79,094	14	17.70	157,195	62	39.44
Black	4,733	1	*	4,916	1	*	9,649	2	*
Hispanic	17,335	9	51.92	19,161	3	*	36,496	12	32.88
Asian/Other	9,522	0	-	12,291	1	*	21,813	1	*
Unknown	---	1	---	---	0	---	---	1	---
Subtotal	109,691	59	53.79	115,462	19	16.46	225,153	78	34.64
65-74						-			-
White	62,699	44	70.18	71,433	27	37.80	134,132	71	52.93
Black	2,430	2	*	2,812	1	*	5,242	3	*
Hispanic	9,662	7	72.45	12,343	5	40.51	22,005	12	54.53
Asian/Other	5,465	4	*	8,531	3	*	13,996	7	50.01
Unknown	---	1	---	---	0	---	---	1	---
Subtotal	80,256	58	72.27	95,119	36	37.85	175,375	94	53.60
75+						-			-
White	51,273	91	177.48	79,520	91	114.44	130,793	182	139.15
Black	1,254	0	-	1,998	2	*	3,252	2	*
Hispanic	6,870	7	101.89	9,784	9	91.99	16,654	16	96.07
Asian/Other	3,538	1	*	5,369	7	130.38	8,907	8	89.82
Unknown	---	1	---	---	1	---	---	2	---
Subtotal	62,935	100	158.89	96,671	110	113.79	159,606	210	131.57
Total	**1,478,547**	**691**	**46.74**	**1,432,921**	**325**	**22.68**	**2,911,468**	**1016**	**34.90**

* Rate not calculated on less than five incidents.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 99/00; Population Estimates, SANDAG

Incidence and Rates of Injury due to Sports and Recreation by Age Group, Race/Ethnicity and Gender

	Males			Females			Total		
	Pop	Incidence	Rate	Pop	Incidence	Rate	Pop	Incidence	Rate
Under5									
White	52,264	4	*	49,597	2	*	101,861	6	5.89
Black	8,624	1	*	8,244	2	*	16,868	3	*
Hispanic	45,907	2	*	47,206	1	*	93,113	3	*
Asian/Other	11,743	0	-	10,972	2	*	22,715	2	*
Subtotal	118,538	7	5.91	116,019	7	6.03	234,557	14	5.97
5-9						-			-
White	55,070	15	27.24	51,453	10	19.44	106,523	25	23.47
Black	8,549	2	*	8,221	1	*	16,770	3	*
Hispanic	40,945	11	26.87	37,628	5	13.29	78,573	16	20.36
Asian/Other	11,048	1	*	10,537	0	-	21,585	1	*
Subtotal	115,612	29	25.08	107,839	16	14.84	223,451	45	20.14
10-14						-			-
White	52,334	36	68.79	49,800	11	22.09	102,134	47	46.02
Black	7,517	3	*	7,351	1	*	14,868	4	*
Hispanic	34,325	16	46.61	31,743	5	15.75	66,068	21	31.79
Asian/Other	10,944	5	45.69	10,556	4	*	21,500	9	41.86
Subtotal	105,120	60	57.08	99,450	21	21.12	204,570	81	39.60
15-19						-			-
White	48,679	22	45.19	49,555	7	14.13	98,234	29	29.52
Black	7,968	1	*	6,569	0	-	14,537	1	*
Hispanic	30,947	5	16.16	27,933	2	*	58,880	7	11.89
Asian/Other	10,851	3	*	10,553	0	-	21,404	3	*
Unknown	---	1	---	---	0	---	---	1	---
Subtotal	98,445	32	32.51	94,610	9	9.51	193,055	41	21.24
20-24						-			-
White	71,179	15	21.07	52,385	4	*	123,564	19	15.38
Black	10,481	1	*	6,446	0	-	16,927	1	*
Hispanic	32,941	5	15.18	27,462	1	*	60,403	6	9.93
Asian/Other	12,092	6	49.62	10,755	0	-	22,847	6	26.26
Subtotal	126,693	27	21.31	97,048	5	5.15	223,741	32	14.30
25-34						-			-
White	133,693	31	23.19	115,103	14	12.16	248,796	45	18.09
Black	16,211	1	*	13,667	0	-	29,878	1	*
Hispanic	64,301	3	*	54,526	1	*	118,827	4	*
Asian/Other	21,601	2	*	22,173	0	-	43,774	2	*
Unknown	---	1	---	---	0	---	---	1	---
Subtotal	235,806	38	16.11	205,469	15	7.30	441,275	53	12.01
35-44						-			-
White	154,051	20	12.98	142,920	10	7.00	296,971	30	10.10
Black	14,627	1	*	12,735	0	-	27,362	1	*
Hispanic	54,589	3	*	49,145	0	-	103,734	3	*
Asian/Other	19,995	1	*	23,833	0	-	43,828	1	*
Unknown	---	0	---	---	1	---	---	1	---
Subtotal	243,262	25	10.28	228,633	11	4.81	471,895	36	7.63
45-54						-			-
White	123,528	8	6.48	114,933	15	13.05	238,461	23	9.65
Black	9,371	0	-	8,827	0	-	18,198	0	-
Hispanic	33,866	2	*	33,758	0	-	67,624	2	*
Asian/Other	15,424	0	-	19,083	0	-	34,507	0	-
Subtotal	182,189	10	5.49	176,601	15	8.49	358,790	25	6.97
55-64						-			-
White	78,101	6	7.68	79,094	5	6.32	157,195	11	7.00
Black	4,733	0	-	4,916	0	-	9,649	0	-
Hispanic	17,335	1	*	19,161	0	-	36,496	1	*
Asian/Other	9,522	0	-	12,291	0	-	21,813	0	-
Subtotal	109,691	7	6.38	115,462	5	4.33	225,153	12	5.33
65-74						-			-
White	62,699	4	*	71,433	2	*	134,132	6	4.47
Black	2,430	0	-	2,812	0	-	5,242	0	-
Hispanic	9,662	0	-	12,343	0	-	22,005	0	-
Asian/Other	5,465	0	-	8,531	0	-	13,996	0	-
Subtotal	80,256	4	*	95,119	2	*	175,375	6	3.42
75+						-			-
White	51,273	0	-	79,520	1	*	130,793	1	*
Black	1,254	0	-	1,998	0	-	3,252	0	-
Hispanic	6,870	0	-	9,784	0	-	16,654	0	-
Asian/Other	3,538	0	-	5,369	0	-	8,907	0	-
Subtotal	62,935	0	-	96,671	1	*	159,606	1	*
Total	**1,478,547**	**239**	**16.16**	**1,432,921**	**107**	**7.47**	**2,911,468**	**346**	**11.88**

* Rate not calculated on less than five incidents.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 99/00; Population Estimates, SANDAG

Abbreviated Injury Scale (AIS): A scale created to describe individual traumatic injuries. AISscores obtain a value from each of 7 body areas: 1) external; 2) head (including face); 3) neck; 4)thorax; 5) abdomen/pelvic contents; 6) spine; and 7) extremities. For each body region a severitycode is assigned which describes the injuries: 1) minor; 2) moderate; 3) serious; 4) severe; 5) crit-ical;6) maximum injury with little chance of survival, and 9) unknown.

Confidence Level (95%): Statistical measure used when comparing the differences between a set of numbers to determine if they are statistically significant or not. A 95% confidence level was used in this report ($p < .05$), therefore you could say that there was less than a five percent chance that the differences were due to chance if they were reported as statistically significant.

Geographic Areas: The geographic areas used in the analysis of the data are the major statistical areas and the subregional areas of San Diego County as defined by the San Diego Association of Governments (SANDAG). See Appendix D.

Mechanism of Injury: This report is based on classifications of injury etiology as follows:

Motor Vehicle Occupant	driver or passenger, not motorcycle
Motorcycle	driver or passenger of motorcycle/moped
Pedalcycle	pedalcyclist, traffic or non-traffic
Pedestrian	pedestrian
Other vehicle	railway accident motor vehicle other or unknown scooter/skateboard/roller skates (traffic) other road vehicle aircraft other vehicle
Falls	fall, steps fall, ladder/scaffold fall, structure fall, into hole/swimming pool, etc. fall, cliff fall from standing (must be witnessed) other fall/unknown
Self Inflicted/Suicides	suicide attempt (hanging, suffocation) self inflicted firearms/ explosive self inflicted cutting/piercing self inflicted jump from high place self inflicted/homicide, undetermined. self inflicted suicide attempt, other

	self inflicted suicide/accident, undetermined
Assaults/Homicides	fall, pushed from vehicle assault, unarmed fight, brawl, etc. rape assault by firearm/explosive assault by cutting/piercing child battering other assault/suspected non-accidental assault by multiple causes (firearms/stabbing/etc.)
Sports & Recreation Activities	scooter/skateboard/carriage/snow skier off road vehicle riding animals water sports sports (hit, kicked or struck) fall from tree/playground equipment
Other	dog bite injured by animal, not dog bite struck by falling object struck by machinery/object (caught, crushed, cut, etc.) cutting instruments (lawn mowers, power tools, appliances, knives, swords, saws, glass) explosion of pressure vessel BB/pellet gun (assault and accidental) bow/cross bow (assault and accidental) firearms (accident, not assault) explosive material (fireworks, gas, bomb, accident) hot substance, caustic, steam electric current cave in (dirt, structures) other unspecified accident legal intervention
Unknown	mechanism left blank or "unknown".

Incidence: The number of occurrences for the specific injury type. Incidence should not be usedto compare different racial/ethnic groups, age groups or geographic areas. For these comparisons,use rates which take into account differences in population sizes.

Injury: For the purposes of this report injury refers to unintentional or intentional damage to the body resulting from acute exposure to mechanical energy.

Injury Severity Score (ISS): A modification of the AIS, the ISS is an anatomic score developed to identify multiple traumatic injuries. The ISS is obtained by summing the squares of the highest AIS code in each of the three most severely injured regions of the body. AIS scores up to 5 are squared, so that the highest ISS attainable is 75. An AIS score of 6 is assigned as ISS of 75.

Race/Ethnicity: Race/ethnicity is calculated for this report as Hispanic, non-Hispanic White, non-Hispanic Black, non-Hispanic Asian/Other based on SANDAG estimates of population for January 2000.

Rate: Calculated as incidence per 100,000 population. Rates were calculated using January 2000 population estimates provided by the San Diego Association of Governments (SANDAG). Rates were not calculated for categories with less than five occurrences, due to instability.

Rate = (Incidence/Population) X 100,000

SANDAG: San Diego Association of Governments.

Scene Time: The total time the patient was not actually being transported to either the receiving hospital or the rendezvous point (reflects the total time a patient spends on scene).

Source of Data: All incidence data is from the San Diego County Trauma Registry. This data includes both deaths and severe traumatic injuries. To be included in the trauma registry a patient must suffer from a traumatic injury and: have a length of stay in the hospital greater than or equal to 24 hours; be admitted to an intensive or intermediate care unit; be an interfacility transfer from or to an acute care facility; or die from the injury. A patient who dies of a traumatic injury on scene, at a non-trauma facility, or at a trauma center is included in the Medical Examiner's database.

Statistical Significance: A number is said to be statistically significant if it is "significantly" larger or smaller than would be expected by chance. For this report statistical significance is measured using a 95% confidence level, meaning that with 95% certainty you can say that the numbers did not occur by chance, giving us a statistical significance of $p < .05$.

Trauma Center Monthly Reports: Summary reports submitted to EMS by each designated trauma center hospital. These forms are intended to serve as a record of the hospital's trauma service activity for that month. This activity includes admissions, discharges, deaths, mode of arrival and final dispositions.

Years Potential Life Lost (YPLL): YPLL calculates the years of life lost due to a death using the average life expectancy as an estimate for the total length of life. Life expectancy was derived from the Vital Statistics Life Tables (Centers for Disease Control and Prevention). For age groups, YPLL was calculated using the life expectancy for the median age for the group.YPLL = (Expected years of life - median age) X Number of deaths

Leading Causes of Death and Severe Injury by San Diego MSA

MSA	Rank	Death	Rank	Severe Injury
Central	1	Suicide	1	Fall
	2	Homicide	2	MV Occupant
	3	Fall	3	Assault
North City	1	Suicide	1	Fall
	2	MV Occupant	2	MV Occupant
	3	Fall	3	Pedestrian
South Suburban	1	Pedestrian	1	MV Occupant
	2	Suicide	2	Fall
	3	Homicide	3	Pedestrian
East Suburban	1	MV Occupant*	1	MV Occupant
	1	Suicide*	2	Fall
	3	Fall	3	Motorcycle
North County West	1	Fall	1	MV Occupant
	2	Suicide	2	Fall
	3	MV Occupant	3	Assault
North County East	1	MV Occupant	1	MV Occupant
	2	Suicide	2	Fall
	3	Fall	3	Assault
East County	1	MV Occupant	1	MV Occupant
	2	Suicide	2	Motorcycle
	3	Sports/Recreation	3	Fall

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 99/00.
** Indicates a tie.*

Leading Causes of Death and Severe Injury by Age Group

Age Group in Years	Rank	Death	Rank	Severe Injury
0-4	1	Homicide	1	Fall
	2	Pedestrian	2	Pedestrian
	3	MV Occupant*, Sport/Rec*	3	MV Occupant
5-9	1	Homicide*, Pedestrian*, MV Occupant*, Fall*, Pedalcycle*	1	MV Occupant
			2	Pedalcycle
			3	Sport/Rec
10-14	1	Pedestrian	1	Sport/Rec
	2	Fall*, Suicide*, Sport/Rec*, Other Vehicle*	2	Pedalcycle
			3	Fall
15-19	1	MV Occupant	1	MV Occupant
	2	Homicide	2	Assaults
	3	Suicide	3	Sport/Rec
20-24	1	MV Occupant	1	MV Occupant
	2	Homicide	2	Assault
	3	Suicide	3	Fall
25-34	1	Suicide	1	MV Occupant
	2	Homicide	2	Assault
	3	MV Occupant	3	Fall
35-44	1	Suicide	1	MV Occupant
	2	MV Occupant	2	Fall
	3	Pedestrian	3	Assaults
45-54	1	Suicide	1	MV Occupant
	2	Fall	2	Fall
	3	MV Occupant	3	Assault
55-64	1	Suicide	1	MV Occupant
	2	Fall*, Homicide*	2	Fall
			3	Pedestrian
65-74	1	Fall	1	MV Occupant*
	2	Suicide	2	Fall*
	3	MV Occupant	3	Pedestrian
75+	1	Fall	1	Fall
	2	Suicide	2	MV Occupant
	3	MV Occupant	3	Pedestrian

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 99/00.
** Indicates a tie.*

Motor Vehicle by Mechanism and San Diego County Subregional Area

MSA	SRA	Population	MV Occupant		Motorcycle		Pedalcycle	
			Injury	Death	Injury	Death	Injury	Death
CENTRAL	Central San Diego	163,622	50	4	4	1	10	1
	Peninsula	63,249	7	2	1	0	7	0
	Coronado	24,742	2	0	3	0	1	0
	National City	55,844	21	9	4	0	1	0
	Southeast San Diego	160,549	18	3	2	1	10	0
	Mid-City	160,018	42	5	0	0	6	0
	TOTAL	**628,024**	**140**	**23**	**14**	**2**	**35**	**1**
NORTH CITY	Kearny Mesa	153,597	29	12	8	0	7	0
	Coastal	80,430	30	3	2	0	6	1
	University	53,065	9	5	0	0	1	0
	Del Mar-Mira Mesa	142,892	13	13	2	0	3	0
	North San Diego	87,791	8	3	2	1	2	1
	Poway	83,669	18	7	3	1	1	0
	Miramar	8,495	1	1	0	0	0	0
	Elliott-Navajo	95,543	12	1	1	0	1	0
	TOTAL	**705,482**	**120**	**45**	**18**	**2**	**21**	**2**
SOUTH SUBURBAN	Sweetwater	78,429	8	1	2	0	0	0
	Chula Vista	104,680	42	7	4	0	11	2
	South Bay	127,575	17	2	2	0	4	1
	TOTAL	**310,684**	**67**	**10**	**8**	**0**	**15**	**3**
EAST SUBURBAN	Jamul	14,750	10	2	2	2	0	0
	Spring Valley	84,757	11	1	7	0	2	0
	Lemon Grove	32,557	10	0	1	0	0	0
	La Mesa	60,268	10	4	2	0	2	0
	El Cajon	121,090	18	2	4	2	6	1
	Santee	56,668	8	2	2	0	0	0
	Lakeside	55,524	15	2	4	0	4	0
	Harbison Crest	15,872	11	3	4	0	1	0
	Alpine	15,002	5	4	1	0	2	0
	Ramona	36,877	22	10	8	2	5	0
	TOTAL	**493,365**	**120**	**30**	**35**	**6**	**22**	**1**
NORTH COUNTY WEST	San Dieguito	91,727	15	2	5	3	3	0
	Carlsbad	97,652	17	3	1	0	5	0
	Oceanside	146,672	43	4	16	2	10	1
	Pendleton	43,649	8	3	3	0	0	0
	TOTAL	**379,700**	**83**	**12**	**25**	**5**	**18**	**1**
NORTH COUNTY EAST	Escondido	142,980	54	8	7	2	7	0
	San Marcos	66,213	19	6	1	0	2	0
	Vista	89,664	31	3	7	1	5	0
	Valley Center	19,919	17	2	2	0	0	0
	Pauma	7,191	8	2	2	1	2	0
	Fallbrook	43,105	30	8	6	0	1	0
	TOTAL	**369,072**	**159**	**29**	**25**	**4**	**17**	**0**
EAST COUNTY	Palomar-Julian	6,266	4	1	8	1	1	0
	Laguna-Pine Valley	5,959	2	0	0	0	0	0
	Mountain Empire	6,533	13	4	2	0	0	0
	Anza-Borrego Springs	6,773	10	4	9	1	0	0
	TOTAL	**25,531**	**29**	**9**	**19**	**2**	**1**	**0**
OTHER/UNKNOWN			880	16	137	1	118	2
TOTAL		**2,911,858**	**1,598**	**174**	**281**	**22**	**247**	**10**

Source: County of San Diego. Health and Human Services, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 99/00; Population Estimates, SANDAG

Motor Vehicle by Mechanism and San Diego County Subregional Area (Continued)

MSA	SRA	Population	Pedestrian		Other Vehicle		Overall Total
			Injury	Death	Injury	Death	
CENTRAL	Central San Diego	163,622	22	5	6	0	103
	Peninsula	63,249	2	1	0	0	20
	Coronado	24,742	0	0	0	0	6
	National City	55,844	6	1	0	0	42
	Southeast San Diego	160,549	18	4	1	0	57
	Mid-City	160,018	16	5	0	0	74
	TOTAL	**628,024**	**64**	**16**	**7**	**0**	**302**
NORTH CITY	Kearny Mesa	153,597	3	4	1	1	65
	Coastal	80,430	14	1	3	0	60
	University	53,065	2	1	0	0	18
	Del Mar-Mira Mesa	142,892	7	3	0	0	41
	North San Diego	87,791	1	0	0	0	18
	Poway	83,669	1	2	0	0	33
	Miramar	8,495	0	0	0	0	2
	Elliott-Navajo	95,543	3	2	0	0	20
	TOTAL	**705,482**	**31**	**13**	**4**	**1**	**257**
SOUTH SUBURBAN	Sweetwater	78,429	2	0	0	0	13
	Chula Vista	104,680	14	7	1	0	88
	South Bay	127,575	13	10	0	0	49
	TOTAL	**310,684**	**29**	**17**	**1**	**0**	**150**
EAST SUBURBAN	Jamul	14,750	0	0	1	0	17
	Spring Valley	84,757	7	3	0	0	31
	Lemon Grove	32,557	3	1	0	0	15
	La Mesa	60,268	1	1	0	1	21
	El Cajon	121,090	6	2	0	0	41
	Santee	56,668	6	2	1	0	21
	Lakeside	55,524	2	1	1	0	29
	Harbison Crest	15,872	5	2	0	0	26
	Alpine	15,002	2	0	0	0	14
	Ramona	36,877	1	0	0	0	48
	TOTAL	**493,365**	**33**	**12**	**3**	**1**	**263**
NORTH COUNTY WEST	San Dieguito	91,727	4	1	2	0	35
	Carlsbad	97,652	1	3	0	0	30
	Oceanside	146,672	18	7	1	0	102
	Pendleton	43,649	1	0	0	1	16
	TOTAL	**379,700**	**24**	**11**	**3**	**1**	**183**
NORTH COUNTY EAST	Escondido	142,980	7	8	1	1	95
	San Marcos	66,213	1	0	0	0	29
	Vista	89,664	7	1	0	1	56
	Valley Center	19,919	1	0	0	0	22
	Pauma	7,191	0	1	1	0	17
	Fallbrook	43,105	4	1	1	0	51
	TOTAL	**369,072**	**20**	**11**	**3**	**2**	**270**
EAST COUNTY	Palomar-Julian	6,266	0	0	0	0	15
	Laguna-Pine Valley	5,959	0	0	0	0	2
	Mountain Empire	6,533	0	0	0	0	19
	Anza-Borrego Springs	6,773	0	0	0	1	25
	TOTAL	**25,531**	**0**	**0**	**0**	**1**	**61**
OTHER/UNKNOWN			155	5	39	1	1354
TOTAL		**2,911,858**	**356**	**85**	**60**	**7**	**2,840**

Source: County of San Diego. Health and Human Services, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 99/00; Population Estimates, SANDAG

San Diego County Population Breakdown by Age Group, Gender and Race/Ethnicity

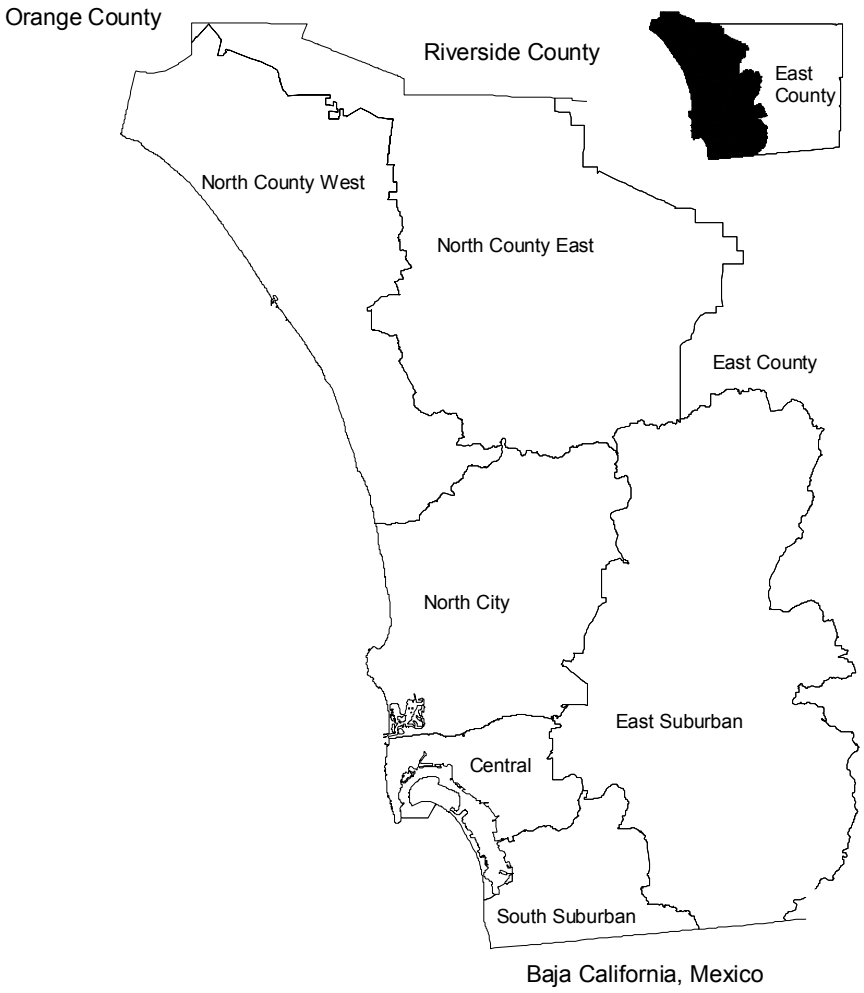
January 1, 2000

		Males	Females	Total
Under 5	White	52,264	49,597	101,861
	Black	8,624	8,244	16,868
	Hispanic	45,907	47,206	93,113
	Asian/Other	11,743	10,972	22,715
5 to 9	White	55,070	51,453	106,523
	Black	8,549	8,221	16,770
	Hispanic	40,945	37,628	78,573
	Asian/Other	11,048	10,537	21,585
10 to 14	White	52,334	49,800	102,134
	Black	7,517	7,351	14,868
	Hispanic	34,325	31,743	66,068
	Asian/Other	10,944	10,556	21,500
15 to 19	White	48,679	49,555	98,234
	Black	7,968	6,569	14,537
	Hispanic	30,947	27,933	58,880
	Asian/Other	10,851	10,553	21,404
20 to 24	White	71,179	52,385	123,564
	Black	10,481	6,446	16,927
	Hispanic	32,941	27,462	60,403
	Asian/Other	12,092	10,755	22,847
25-34	White	133,693	115,103	248,796
	Black	16,211	13,667	29,878
	Hispanic	64,301	54,526	118,827
	Asian/Other	21,601	22,173	43,774
35-44	White	154,051	142,920	296,971
	Black	14,627	12,735	27,362
	Hispanic	54,589	49,145	103,734
	Asian/Other	19,995	23,833	43,828
45-54	White	123,528	114,933	238,461
	Black	9,371	8,827	18,198
	Hispanic	33,866	33,758	67,624
	Asian/Other	15,424	19,083	34,507
55-64	White	78,101	79,094	157,195
	Black	4,733	4,916	9,649
	Hispanic	17,335	19,161	36,496
	Asian/Other	9,522	12,291	21,813
65-74	White	62,699	71,433	134,132
	Black	2,430	2,812	5,242
	Hispanic	9,662	12,343	22,005
	Asian/Other	5,465	8,531	13,996
75+	White	51,273	79,520	130,793
	Black	1,254	1,998	3,252
	Hispanic	6,870	9,784	16,654
	Asian/Other	3,538	5,369	8,907
Total		**1,478,547**	**1,432,921**	**2,911,468**

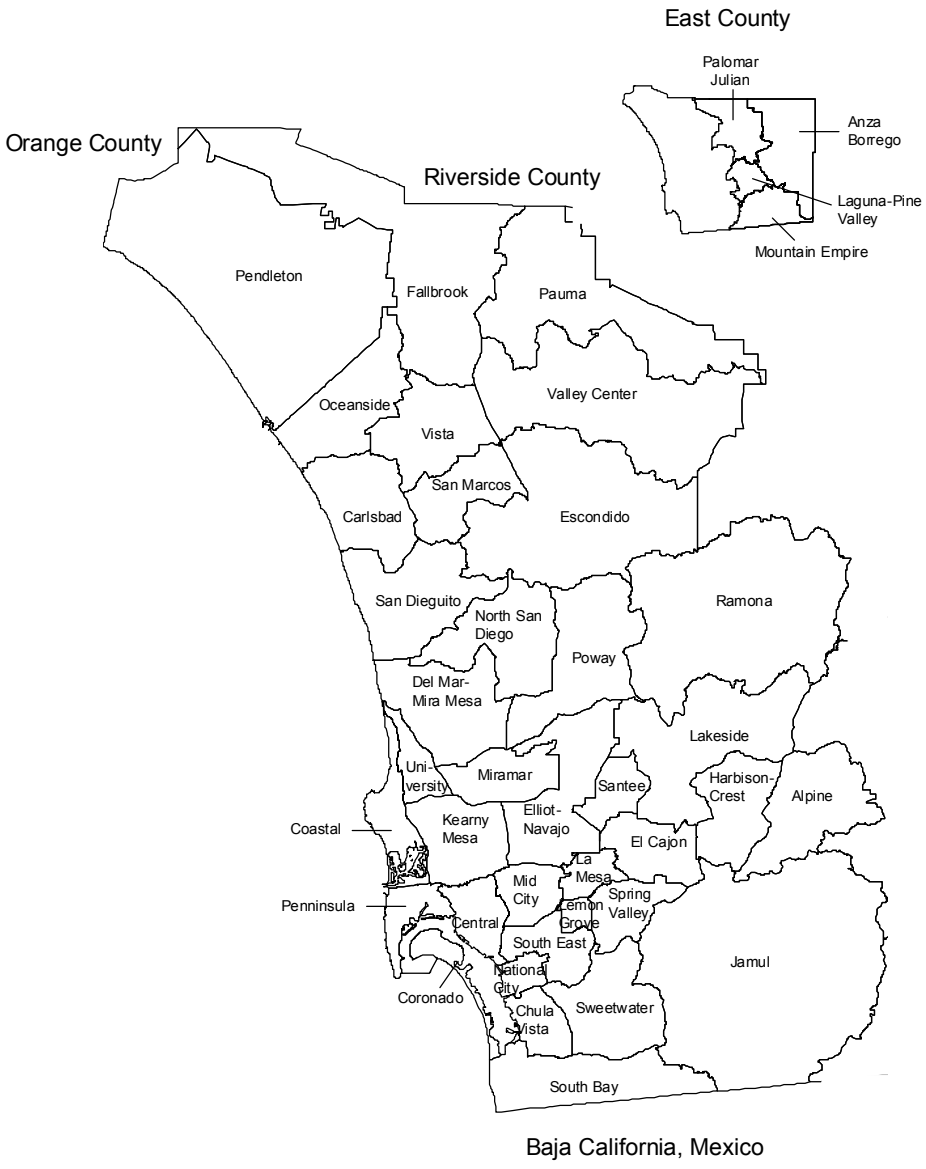
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services; Population Estimates, SANDAG

Appendix C

San Diego County Major Statistical Areas



San Diego County Subregional Areas



DIRECTORY

EMS AGENCY

6255 Mission Gorge Road, San Diego, CA. 92120 - (619) 285-6429

Chief: Gwen Jones

Interim Medical Director: Gary Vilke, MD, FACEP

EMS Coordinator: Patricia Murrin, RN, MPH

EMS Coordinator: Steve Wood

CHILDREN'S HOSPITAL AND HEALTH CENTER

3020 Childrens Way, San Diego, CA 92123 - (858) 576-1700

Hospital Administrator: Irvin Kaufman, MD

Trauma Administrator: Irvin Kaufman, MD

Trauma Medical Director: Barry LoSasso, MD, FACS

Trauma Nurse Coordinator: Sue Cox, RN, MS

SCRIPPS MERCY HOSPITAL AND HEALTH CENTER

4077 Fifth Avenue, San Diego, CA 92103 - (619) 294-8111

Hospital Administrator: Tom Gammiere

Trauma Administrator: Judy Hames, RN

Trauma Medical Director: Michael J. Sise, MD, FACS

Trauma Nurse Coordinator: Dorothy M. Kelley, RN, BS, CEN

Base Hospital Medical Director: Steven Zahller, MD, FACEP

Base Hospital Nurse Coordinator: Patty Skoglund, RN.

PALOMAR MEDICAL CENTER

555 East Valley Parkway, Escondido, CA 92025- (760) 739-3000

Hospital Administrator: Gerald Bracht

Trauma Administrator: Kim Colonnelli, RN, MSN,

Trauma Medical Director: Tom Velky, MD, FACS

Trauma Nurse Coordinator: Vacant

Base Hospital Medical Director: Michelle Grad, MD

Base Hospital Nurse Coordinator: Shelley Berthiaume, RN

SCRIPPS MEMORIAL HOSPITAL, LA JOLLA

9888 Genesee Avenue, La Jolla, CA 92037 - (858) 457-4123

Hospital Administrator: Gary Fybel

Trauma Administrator: Cynthia Steckel, RN

Trauma Medical Director: A. Brent Eastman, MD, FACS

Trauma Nurse Coordinator: Cheryl Wooten, RN, MSN, CNS

Base Hospital Medical Director: Shawn Evans, MD

Base Hospital Nurse Coordinator: Mary Johnson, RN, MHA, CEN, MICN

SHARP MEMORIAL HOSPITAL

7901 Frost Street, San Diego, CA 92123 - (858) 541-3400

Hospital Administrator: Dan Gross, CEO

Trauma Administrator: Janie Taylor, RN, BSN

Trauma Medical Director: Frank Kennedy, MD, FACS

Trauma Nurse Coordinator: Kathi Ayers, RN, MSN

Base Hospital Medical Director: Mark Kramer, MD

Base Hospital Nurse Coordinator: Susan Smith, RN

UNIVERSITY OF CALIFORNIA, SAN DIEGO MEDICAL CENTER

200 West Arbor Drive, San Diego, CA 92103 - (619) 543-6222

Hospital Administrator: Sumiyo E. Kastelic, BA, MPH

Trauma Administrator: Sumiyo E. Kastelic, BA, MPH

Trauma Medical Director: David Hoyt, MD, FACS

Trauma Nurse Coordinator: Peggy Hollingsworth-Fridlund, RN, BSN

Base Hospital Medical Director: Gary Vilke, MD

Base Hospital Nurse Coordinator: Lana Brown, RN, MICN

SHARP / GROSSMONT HOSPITAL

5555 Grossmont Center Drive, La Mesa, CA 91942 - (619) 465-0711

Hospital Administrator: Michelle Tarbet

Base Hospital Medical Director: William Linick, MD

Base Hospital Nurse Coordinator: Mary Meadows-Pitt, RN, BSN

SCRIPPS MEMORIAL HOSPITAL - CHULA VISTA

435 H Street, Chula Vista, CA 91910 - (619) 691-7000

Hospital Administrator: John Grah

Base Hospital Medical Director: Mary Margaret Loehr, MD

Base Hospital Nurse Coordinator: Linda Broyles, RN, MSN, MICN

TRI-CITY MEDICAL CENTER

4002 Vista Way, Oceanside, CA 92056 - (760) 724-8411

Hospital Administrator: Arthur Gonzalez

Base Hospital Medical Director: Todd Zaayer, MD

Base Hospital Nurse Coordinator: Dori Vroman, RN.